Volume 166 No. 17

# Oil, Paint and Drug Reporter

*The Chemical Market Authority Since 1871*

October 25 1954

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V 166 — 17 OCT 1954 XUM

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✓ No solubilizer needed ✓ Commercial production

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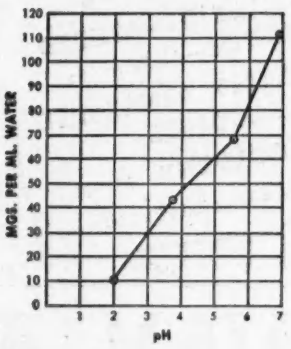
Now you can make clear solutions with a concentration of 30 mg. or higher per ml. of water when you use the new Roche riboflavin-5′-phosphate sodium. No longer do you need to use solubilizers and special techniques to achieve a satisfactory solution. Remember the trouble you had in getting a solution of even 2 mg. of riboflavin per ml.? Those days are now past.




SOLUBILITY of Roche riboflavin-5′-phosphate sodium in water at different pH levels; room temperature.

These data show that solubility of Roche $B_2$ phosphate sodium depends on hydrogen ion concentration in water. It is useful to note that the solubility of riboflavin U.S.P. (approximately 0.12 mg. per ml.) inserted on this graph would fall just above the base line.

**SPECIFICATIONS** Tests show that riboflavin-5′-phosphate sodium (M.W. 514.4) has the full theoretical activity on the molecular basis of riboflavin (M.W. 376.36). Theoretically one gram of the phosphate is equivalent to 0.73 grams of riboflavin. The Roche product contains small amounts of moisture, disodium salt, diphosphate ester and unesterified riboflavin. It has a riboflavin activity of 70-73% by weight.

**USES** The new riboflavin-5′-phosphate sodium, probably the most important riboflavin development since Roche introduced the vitamin commercially in 1941, is specially designed for use in manufacturing:

- vitamin parenteral solutions
- water-dispersible multivitamin drops and gelatin capsules
- tablets (in which rapidly-soluble riboflavin is desirable)

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**SOLUBILITY—TASTE DEMONSTRATION** You can prove to yourself, easily and quickly, the solubility-taste advantages of Roche riboflavin-5′-phosphate sodium with the Roche demonstration kit. Ask your Roche representative to show it to you. Or we'll be glad to send one, without charge, at your request.

**BIOLOGICAL AVAILABILITY** Roche riboflavin-5′-phosphate sodium has immediate biological activity because it is identical with the natural flavin mononucleotide occurring in the "yellow" respiratory tissue enzyme system.

**COST COMPARISON** Even though the cost of Roche $B_2$-5′ is somewhat higher than regular riboflavin, its use can result in actual savings. You eliminate expensive solubilizers and unnecessarily large amounts of niacinamide. You reduce or eliminate costly complaints and returns. You are able to make manufacturing economies.

**STABILITY**

Roche riboflavin-5′-phosphate sodium (riboflavin-5′-phosphate ester monosodium salt dihydrate) in general has the same stability properties as riboflavin.

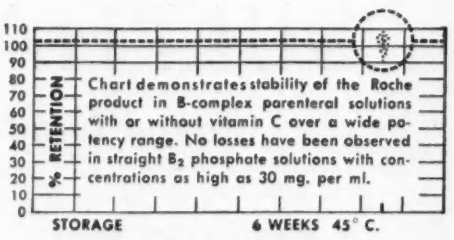


Chart demonstrates stability of the Roche product in B-complex parenteral solutions with or without vitamin C over a wide potency range. No losses have been observed in straight $B_2$ phosphate solutions with concentrations as high as 30 mg. per ml.

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# Nitrogen Storage Goal Viewed Needless Now

A majority of the producers and distributors of nitrogen attending a special conference last week with officials of the Business and Defense Services Administration advised against establishment of an expansion goal for nitrogen storage facilities at this time.

It was their view that while additional storage facilities are needed and additional storage facilities are now being constructed by industry, industry could beat the problem alone without the necessity of the government setting up a goal.

The meeting was called by the chemical and rubber division of BDSA because the question of government aid in the form of tax amortization certificates to cover such facilities has become an immediate problem by reason of several applications having been filed for certificates. Action has been withheld because the government has never established a policy on the question.

**Coverage of All Forms Sought**

At the meeting some conferees said that in event the government decides to set up a goal for storage of nitrogen, it should not be limited to liquid materials but should cover all forms of nitrogen. They also suggested that eligibility under an expansion goal program be based on volume of storage needed, regardless of whether the applicants for amortization certificates are consumers, producers or distributors.

The industry representatives were of the opinion that more storage facilities for nitrogen are desirable. Furthermore, certain members maintained that accelerated tax amortization would aid small distributors financially. Some thought that the anticipated write-off on storage would not provide sufficient incentive under the current tax law.

The government last February established an annual production goal of 3,500,000 tons of nitrogen in all forms, scheduling completion of the expansion program for January 1, 1957. Amortization certificates for this total have been issued and the goal is closed. It is expected that production facilities capable of producing nitrogen at the rate of 3,010,000 tons annually will be in operation by next January 1.

## Narcotics Law Control Placed Over Two Drugs

President Eisenhower issued a proclamation October 18 placing two new synthetically produced drugs under control of the federal narcotic laws because they have been found to have addiction-forming or addiction-sustaining liabilities similar to morphine.

The new drugs are:—3-Methoxy-N-methylmorphinan, its racemic and levorotatory forms and their salts, but excepting its dextrorotatory form and its salts because this latter form of the drug was not found to have addiction liability, and 4-(3-hydroxyphenyl)-1-methyl-4-piperidyl ethyl ketone (known as ketobemidone) and its salts.

The proclamation places the drug under the same restrictive measures that are applied to morphine and similar addicting derivatives of opium.

## Linseed Oil for Export Sold by CCC to 2 Firms

Sale of 20,900,000 pounds of raw linseed oil for export to two buyers was announced last week by the Cincinnati, Ohio, office of the Commodity Credit Corporation. J. H. Redding, Inc., New York, acting for Pacific Vegetable Oil Corporation, San Francisco, purchased 20,000,000 pounds at 7 cents a pound, f.o.b. buyer's steamer, Port of New York. Sherwin-Williams Company, Cleveland, Ohio, purchased 900,000 pounds at 6½ cents a pound "in store" Cleveland.

## Monomethylaniline Curbed

Monomethylaniline has been added to the positive list of commodities which may be exported from the United States only under validated licenses, it was announced last week by the Bureau of Foreign Commerce. The action becomes effective October 28.

## *Fertilizer Associations Confirm Merger Story*

Russell Coleman, president of the National Fertilizer Association, and Paul T. Truitt, president of the American Plant Food Council, last week confirmed an earlier OIL, PAINT AND DRUG REPORTER story (OPD, 10/11/54) that negotiations are now being conducted for the consolidation of the two organizations.

NFA's board of directors, meeting in Washington October 19, voted to recommend to the full membership of the association approval of a proposal for consolidation with APFC to form a new non-profit corporation to be known as the National Plant Food Institute. The proposal is based on the recommendations of a joint committee of the two associations which met in Washington earlier this month.

Details of the consolidation plan were distributed last week to NFA members so that a vote can be taken at the fall meeting to be held November 10 to 12 in Hollywood, Fla. APFC's board is slated to meet in Washington October 28 to weigh the merger plan.

## Health Plan Going Back To Congress: Eisenhower

President Eisenhower, on a speaking tour in New York last week, said that his health reinsurance program, which had been shelved by the house in July, would be resubmitted to the next congress as the "logical alternative to socialized medicine." Stating that "we are years behind our potential achievement in the availability and adequacy of health services," the President, however, reaffirmed his philosophy that the task was not alone or even primarily for the federal government.

## Insecticide Standard Revised

The revised edition of household insecticide commercial standard CS 72-54 was issued last week by the commodity standards division of the Department of Commerce. The standard covers methods of test, biological, physical and chemical properties, and certification of quality of liquid space spray-type household insecticides. The standard, proposed by the Chemical Specialties Manufacturers Association, became effective September 25.

# Pesticide Residue Safety Limits Are Proposed for 26 Materials

Proposed safety limits for residues of twenty-six chemical pesticides used on fresh fruits and vegetables were issued October 20 by the Department of Health, Education and Welfare, together with regulations setting forth procedures for establishing tolerances for other agricultural pesticides and crop uses provided for by the new Miller control law.

The residue tolerances proposed are based on scientific data developed at hearings held in 1950 under section 406 of the federal food, drug and cosmetic act and relate to specifically named fruits and vegetables on which the pesticides were then proposed for use. New crop uses developed and registered with the Department of Agriculture since those hearings are not covered by the proposed tolerances.

Persons who participated in the 1950 hearings have sixty days within which to file exceptions to the tolerances proposed. Persons having registered uses for pesticides which are not covered by the proposed tolerances may file an application with HEW for establishment of a tolerance under the procedure provided for by the Miller act and the regulations proposed thereunder. Officials said that they are ready to receive applications from the industry at any time. Under the Miller law, residue tolerances for chemical pesticides become effective July 22, 1955, unless an exemption is granted or the deadline is extended by the secretary.

**NACA Executive Secretary Comments**

Commenting on the proposed tolerances and Miller act regulations, which were published in the *Federal Register* October 20, Lea S. Hitchner, executive secretary of the National Agricultural Chemicals Association, emphasized that the proposed tolerances are not final, but are subject to change and also noted the fact that they do not include all the crop uses now being made of some registered pesticides.

Many of the pesticides are registered for use with the USDA on a greater number of crops today than in 1950 because much more data has been accumulated on uses for many of these pesticides, he explained. He added that the proposed tolerances do not affect the additional uses for which the product registered is in effect with the USDA and said that the tolerances for these additional uses can be expected to be proposed later.

An accompanying table gives the names of pesticides for which proposed tolerances have been set, the amount of tolerances, and the food crops to which each applies. Under the proposed regulations, any of the listed fruits and vegetables can legally be distributed in interstate commerce if it does not carry more than the specified tolerance of a permitted pesticide. But combinations of pesticide residues with related pharmacologic effects are limited so that the total amount of combined residues will be safe.

The proposed regulations provide that no residues of the following pesticides shall remain on fruits or vegetables (i.e., that these pesticides shall have a tolerance of zero):—Calcium cyanide; dinitro-o-sec.-butylphenol; dinitro-o-cresol; hexaethyl tetraphosphate (HETP); tetraethyl pyrophosphate (TEPP); hydrocyanic acid; mercury-containing compounds; nicotine and nicotine-containing materials; selenium and selenium-containing compounds.

**Some Chemicals Virtually Unaffected**

Some of these compounds, calcium cyanide and hydrocyanic acid, for example, are applied to crops at such time in their growth, or are dissipated so rapidly after application that a zero tolerance will have little or no effect upon the manner in which they are employed in agriculture. Others, such as the mercury and selenium compounds, if employed at all, must be used with unusual care to keep the finished crop from bearing any residues when marketed.

The tolerances based on the 1950 hearings do not take into account technological and research advances made since that time but are subject to change under the procedure of the new amendment. New scientific data relating to the safety of any pesticide could be filed in the form of an application for a new toler-

—*Continued on page 55*

## Alcohol Charge Decision Made by Revenue Service

The Internal Revenue Service last week ruled that a clinic may not sell medicines compounded with alcohol, withdrawn tax-free, for use of its patients off the premises, regardless of whether any payment represents the cost of the medicine, is more or less than cost, or is in the nature of a fee or contribution, nominal or otherwise.

The use of rubbing alcohol compound made with tax-free alcohol by a hospital permittee should be confined strictly to ministering to hospital patients, and no separate charge made therefor. Where it is desired to furnish rubbing alcohol compound to outpatients, such rubbing alcohol compound should be procured from authorized sources, it was stated.

If a hospital desires to sell medicinal preparations, tax-paid alcohol should be used in the manufacture of such products, in which case the hospital would be entitled to file claim for drawback of a part of the tax if it first becomes eligible to claim drawback, as provided by section 3250(1) of the Internal Revenue Code of 1939 and section 197.25 of regulations 29, by obtaining a special tax stamp as a non-beverage manufacturer.

## Selenium Export License Application Dates Are Set

The Bureau of Foreign Commerce announced last week that applications for licenses to export selenium during the first quarter should be filed between December 1 and December 15. The dates apply to the following selenium commodities (schedule B number in parenthesis):—

Powder (619159); metal, except selenium-bearing scrap materials (664993); salts of organic compounds (839750); salts and compounds, including selenium dioxide (839900); selenium-containing pigments (849900); accelerators composed of selenium-containing rubber compounding agents not of coaltar origin (829810), and ferroselenium (622098).

# Fluorspar Domestic Industry Going Bankrupt, Tariff Commission Told

Testimony that the fluorspar mining industry in the United States is on the verge of bankruptcy because of competition from the imported material, chiefly from Mexico, was heard last week by the Tariff Commission as it opened an investigation into conditions in the industry.

At the same time, however, the commission received arguments from others—consumers and importers — protesting against any move to raise the fluorspar tariffs as limite imports because reserve supplies of the material in this country are rapidly becoming depleted and conservation must be practiced.

The inquiry is being undertaken by the commission at the direction of the senate finance committee, which last year was flooded with requests for legislation which would meet the threat of the foreign material. The committee asked for a report early next year.

**No Recommendations Will Be Made**

In opening the investigation, Edgard B. Brossard, chairman of the Tariff Commission, emphasized that the commission intends to make no recommendations for remedial action to the senate, but will simply present a factual report for guidance in the committee in making its own decision.

Representatives of the mining companies from each of the fluorspar production centers in Illinois, Kentucky and Utah testified at the hearings that the imported fluorspar was being sold in this country at prices so far below domestic production costs that the American producers have no choice but to shut down the mines, or operate them at a loss.

They argued that from a national defense standpoint, it is essential that this country maintain a healthy fluorspar mining industry. While they admitted that the industry could not fulfill the entire domestic demand for fluorspar and consumers must rely on imports to fill the gap, they insisted that they could meet 75 percent of the demand if protected against the competition from the foreign material.

**Unemployment Factor Noted**

Thomas F. Carpenter, associate director of research of District 50 of the United Mine Workers, testified that imported fluorspar has taken an increasing share of the domestic market since 1950 and has forced thousands of workers out of employment. He said imports have risen from 30.6 percent of consumption in 1950 to 67.7 percent in the first half of this year.

Gill Montgomery of Minerva Oil Company, Eldorado, Ill., testified that esti-

—*Continued on page 71*

## Streptomycin Rule Issued

Regulations for testing and certification of streptomycin for inhalation therapy were issued last week by the Food and Drug Administration. The regulations permit the labeling of the preparation with a certification period of twenty-four months if packaged with inert gases.

# Copper Available Only To Imperiled Industries

Supplies of government-owned copper being released by the Office of Defense Mobilization, amounting to 17,500 short tons, will be made available by the Business and Defense Services Administration only to companies facing shutdowns for lack of the metal, it was announced last week by Secretary of Commerce Sinclair Weeks.

He explained that the copper being released is from the supplies accumulated in the defense production act inventory and is not from the national stockpile, and is insufficient to meet in full current industrial requirements of the copper consuming industries. Companies facing plant shutdowns should file their requests for copper with the copper division of BDSA.

Because of the tight copper supply situation brought about by the cutback in domestic production because of strikes, it was also announced that export controls over copper products are being revised for the fourth quarter by the Bureau of Foreign Commerce.

**Export License Requirements**

Export license applicants are now required to certify that the copper for which the license is requested is available for immediate export and is destined to an actual user, and the name of the foreign consumer must be shown on the export license application. This requirement will enable BFC to grant licenses only for material actually available for shipment abroad to a designated foreign consumer. Issuance of licenses for export of copper material not immediately available will be avoided. Licenses issued under this temporary procedure will be valid for a maximum of two months.

Applicants who are producers are required to make formal certification that the copper material described in the application is available for immediate export. Applicants who are non-producers are required to supply evidence of availability in one of two forms, (a) certification of evidence of ownership, or (b) certification of evidence of commitment which shows that the applicant has a firm contract with the supplier to deliver the copper materials for export by a specified date.

The temporary requirements do not apply to exports of copper produced from foreign-owned materials which are brought into this country for processing and reexport. Such transactions are known in the trade as toll or conversion agreements.

## DuPont Elects Copeland V.P., Finance Unit Head

E. I. duPont de Nemours & Co., Wilmington, Del., has announced that Lammot duPont Copeland, secretary of the company and a member of the finance committee, has been elected a vice-president and chairman of the finance committee, succeeding Angus B. Echols. Mr. Echols, who will retire at the end of the month as chairman of the finance committee, vice-president in charge of finance and a member of the executive committee, has resigned from the board of directors, effective October 31. He has been with the company forty-two years.

Mr. Copeland will continue as secretary of the company. T. Crawley Davis, vice-president and member of the executive committee, has been elected a member of the finance committee. Robert L. Richards, general manager of the textile fibers department, has been elected a director, vice-president and member of the executive committee. His successor as general manager has not yet been chosen.

## Agriculture Dep't Post To Peterson of Oregon

Ervin L. Peterson, director of the Oregon State Department of Agriculture, has been named assistant Secretary of Agriculture, succeeding J. Earl Coke, who has resigned to return to his former position as director of the Agricultural Extension Service in California. The new assistant secretary will be in charge of the Department of Agriculture's work in the field of federal-state relations, in which are included the USDA conservation, research and education agencies.

## Ringwood Elevates Frank

Ringwood Chemical Corporation, Ringwood, Ill., has elected Dr. Robert L. Frank to the post of vice-president in charge of research. Dr. Frank was a member of the chemistry faculty at the University of Illinois for ten years until 1950 when he joined Edwal Laboratories, Inc., predecessor organization of Ringwood Chemical, as director of research.

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## Kerr-McGee Lease Bidding In Error; Would Resubmit

Kerr-McGee Oil Industries, Inc., has advised the Department of the Interior that it had erred in its bidding for oil and gas leases on the outer continental shelf (OPD, 10/18/54) and asked permission to resubmit its bids in corrected form.

The company stated that it submitted its bids on the basis of the block numbers, whereas it was intended that they apply to the tract numbers as called for in the invitation. The result was that the company wound up as high bidder for lands about which it had no geological information or interest whatsoever.

The department gave no indication what action it would take on the request. The letter was referred to the department attorneys for study of the legal aspects of its contents.

## Synthetic Rubber Output Is Reduced for January

A reduction in GR-S synthetic rubber production in January to 44,000 long tons from the December production of 44,300 tons has been scheduled by the Federal Facilities Corporation to compensate for adjustments in consumer inventories, it was announced last week.

The agency said that expected sales of GR-S rubber in January totaled 43,000, which compares with 46,500 tons expected in December. November production was scheduled at 40,400 tons and sales at 43,000. The inventory of GR-S rubber held by the corporation on September 30 was approximately 70,400 tons. Total production of GR-S rubber for the calendar year is estimated at 470,000 long tons. Total sales will approximate 488,000 tons.

## Explosives Rules Amended

A series of amendments to the regulations covering the transportation of explosives and other dangerous articles were published by the Interstate Commerce Commission in the *Federal Register* October 15 for study by interested shippers.

The changes are designed to make the regulations conform to latest advances in industry in the development and packaging of new materials and the labeling of materials. The changes also have to do with placarding of railroad cars transporting such materials, and the testing and periodic inspection of certain types of tankcars.

## Dow Asks AEC Permission To Leave Atomic Project

Dow Chemical Company, Midland, Mich., has requested the Atomic Energy Commission's approval to withdraw from the industrial atomic power development project that it began in 1951 with Detroit Edison Company, Detroit, Mich. Concurrently with Dow's request, the project requested AEC approval for the addition of nine more companies to the overall group and approval of a change in the project's name to "Atomic Power Development Associates."

Explaining Dow's action, a company spokesman said that the atomic studies had reached a stage where the participants have crystallized their individual interests. Dow gained basic knowledge concerning the technology of nuclear reactors from the project, it was stated, but from the present on, it would not be logical to continue participation in a program directed at the development of atomic power as such.

## Sulfur Company Is Formed To Work Venezuela Deposits

Venezuelan Sulphur Corporation of America has been formed by six industrialists and investors to develop deposits of surface sulfur in the state of Sucre, east of Caracas, Venezuela.

The firm's concession, covering about 43 square miles, contains sulfur ores twenty feet or less below the ground, averaging about 40 percent sulfur, it was said. The company plans to start building a plant to process about 100,000 tons of sulfur yearly within the next few months and hopes to be in production in about a ear. Plans call for selling most of the output in Latin America, partly to new industries in Venezuela, and the rest to Europe.

## Frontier Advances Two

Jerry C. Walker has been promoted to the newly-created post of field sales manager by Frontier Chemical Company, Wichita, Kan., and R. J. Redmond has been made sales coordinator. Mr. Walker previously managed the company's petroleum sales. Mr. Redmond formerly served as sales representative in the Texas area. In his new post, he will be charged with liaison between production, sales and customers in regard to handling orders in the company's home office.

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## Price Index Weakens Slightly

The overall OPD price index was virtually unchanged, moving down 0.01 point to stand at 106.23. The oils, fats and waxes section scored the broadest index movement. Advances were made for choice white grease, lard, oleo stearine, peanut meal and edible tallow, together with carnauba and Japan wax. Oils advanced were corn, menhaden, rapeseed and tung. This section witnessed reductions in cottonseed, peanut and soybean oils, as well as in copra. Among protective coatings materials, the only change recorded was a reduction for Argentine casein. Trade in this material was reported spotty and for small amounts. There were no changes in the heavy chemicals market.

There was a flurry of price activity in the agricultural chemicals market. Dried blood, tankage, and domestic urea were lowered. Menhaden fish meal and scrap moved upward. Materials in the petroleum derivatives market affecting the index were steady. The industrial organic chemicals section was also devoid of price activity. Among essential oils, aromatics and flavorings, advances were effected for Dutch caraway seed, Batavia cassia cuttings, West Indian mace and East Indian nutmeg. Also raised were French and Indian celery seed, Jamaican ginger, and lemongrass and lavender oils. Reductions were noted for both white and black pepper, as well as for Jamaican and Mexican pimento, Dutch and Polish poppy seed, and Ceylon cinnamon. Madagascar cloves and longstick and shortstick Batavia cassia were also found at lowered prices. There were no price changes in textile and leather chemicals, nor in coal chemicals.

**Prices Advanced**

Caraway seed, ½c. per lb. (57).
Cassia, Batavia, cuttings, ¼c. per lb. (57).
Celery seed, French, 2c. per lb. (57).
  Indian, ½c. per lb.
Cocoa butter, 3c. per lb. (64).
Fish meal, menhaden, $3.70 per ton (47).
  Scrap, menhaden, $4 per ton
Ginger, Jamaica, No. 2, 5c. per lb. (57).
  No. 3, 3c. per lb.
Greases, ½c. per lb. (64).
  choice white, ¼c. per lb.
Lard, ½c. per lb. (64).
Mace, West Indian, 1c. per lb. (57).
Nutmeg, East Indian, 1c. per lb. (57).
Oil, corn, crude, ¼c. per lb. (64).
  refd., ¼c. per lb.
  Lavender, flower, French, 30%-32% ester, 40c. per lb. (57).
  38%-40%, $1.50 per lb.
  40%-42%, $1.90 per lb.
Lemongrass, 20c. per lb. (57).
Menhaden, crude, ½c. per lb. (64).
Rapeseed, ½c. per lb. (64).
Tung, ½c. per lb. (64).
Oleo stearine, ½c. per lb. (64).
Peanut meal, $1 per ton (64).
Tallow, edible, 1c. per lb. (64).
  inedible, ½c. per lb.
Wax, carnauba, yellow, Parnahyba, 2c. per lb. (64).
  Japan, 2c. per lb.

**Prices Reduced**

Casein, Argentine, ½c. per lb. (61).
Cassia, Batavia, longstick, cracked, ½c. per lb. (57)
  shortstick, ½c. per lb.
Cinnamon, Ceylon, No. 2, 2c. per lb. (57).
Clove, Madagascar, 2c. per lb. (57).
Dried blood, Chicago, 25c. per unit of ammonia (47).
Ginger, African, 2c. per lb. (57).
Iodine, resublimed, USP, 25c. per lb. (49).
Oil, cottonseed, crude, ¼c. per lb. (64).
  refd., ½c. per lb.
  Peanut, crude, ½c. per lb. (64).
  refd., ½c. per lb.
  Soybean, crude, ½c. per lb. (64).
  refd., ¼c. per lb.
Pepper, black, Malabar, 4c. per lb. (57).
  white, 2c. per lb.
Pimento, Jamaican, 8c. per lb. (57).
  Mexican, 10c. per lb.
Poppy seed, Dutch, ½c. per lb. (57).
  Polish, 2c. per lb.
Potassium iodide, 25c. per lb. (49).
Tankage, 25c. per unit of ammonia (47).
Urea, dom., $10 per ton (47).

**OPD Price Index**

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100—1949 average)

| October 22, 1954 | October 15, 1954 | October 23, 1953 |
|---|---|---|
| 106.23 | 106.24 | 106.00 |

## Shell Names H. E. Hughes To New Technical Position

Shell Chemical Corporation, New York, has named H. E. Hughes to the newly-created post of assistant technical superintendent at the company's Houston, Tex., plant and has appointed J. W. Hyde to succeed Mr. Hughes as chief engineer.

In his new position, Mr. Hughes will have charge of establishing a new engineering development department in the plant to apply technical skills and advanced engineering know-how to problems involving plant construction, inspection and maintenance. He has been with the company since 1934. Mr. Hyde joined Shell in the same year. He became chief engineer at the company's Pittsburg, Cal., installations in 1946, and the following year moved to Houston, Tex., in a similar capacity.

## Aldrin Price Cut by Shell

Shell Chemical Corporation, New York, last week announced a price reduction of 20 cents per pound in the price of technical grade aldrin. The new prices are 80 cents per pound, carloads, and 85 cents, less carloads. Both are delivered quotations.

## Drug Parley to Probe New Ideas on USP, NF

A discussion of questions dealing with the forthcoming editions of the United States Pharmacopeia and the National Formulary will feature next month's meeting of the Combined Pharmaceutical Contact Committee of the American Drug Manufacturers Association and the American Pharmaceutical Manufacturers Association. The meeting will take place November 9 and 10 at the Sheraton Park hotel, Washington, D. C.

The discussions will enable the group to draw up any supplementary recommendations it may desire to submit to two open hearings which will follow the meeting. An open hearing on the NF will be held the afternoon of the tenth, while an open hearing on the USP will begin the morning of November 11.

According to a statement by F. O. Taylor, chairman, and D. M. Copley, secretary, of the combined contact committee, special attention should be given to the USP and NF "General Notices" which precede the section on monographs, and to the extensive section on "General Tests, Processes and Apparatus," which include details of many required tests and assays and also some chapters of a chiefly informative nature such as those on "Chromatography," "Radiography" and "Sterilization Procedures."

Some of the topics which are expected to come up for discussion are those on the effect of diluents and excipients in tablets and capsuls on their assays; epinephrine assay and tests for norepinephrine; estrone and tests for equilin and equilenin; digitoxin assay; sterility tests and procedures, and tablet disintegration tests on coated tablets.

Progress reports will also be presented on such subjects as rubber closures, cascara assay, conjugated estrogen assays and several other less extensive projects of the combined contact committee.

## Coaltar Makers to Cooperate With Customs on Filing Data

Full cooperation in the carrying out of recent Treasury Decisions affecting coaltar products was pledged to US Customs officials by American makers last week at an all-day meeting called in New York by the Synthetic Organic Chemical Manufacturers Association.

According to Treasury Decisions 53593 and 53594, which become effective December 22, specific data must be furnished the Customs Laboratory in New York on coaltar colors, dyes, stains, color acids, color bases, color lakes, leuco-compounds, or indoxyl or indoxyl compounds. The requirement is mandatory for importers, but data need only be submitted on a voluntary basis by domestic manufacturers of these products.

An SOCMA spokesman, in explaining the association's position in urging full cooperation with Customs, said that failure of domestic makers to provide the needed data would work against American interests, leaving Customs authorities with only a one-sided picture on which to base their findings.

To supply the necessary information, SOCMA has printed 50,000 filing cards. These cards, which are available from the association to SOCMA members and nonmembers alike, must be filed together with samples not later than the effective date of December 22. It was emphasized that the information is to be filed directly with Customs, and that all data furnished will be held confidential in accordance with the law.

## FDA-Sponsored Symposium On Antibiotics Opens Today

The second annual symposium on antibiotics, sponsored by the Food and Drug Administration, in collaboration with the journal, *Antibiotics and Chemotherapy*, is being held today through Friday in the auditorium of the Department of Health, Education and Welfare, Washington, D. C.

Advances in the field of antibiotics will be reported by 172 speakers, including several from abroad (Germany, France, Sweden, Wales and South Africa). Ministers of health or their representatives from thirty-one countries have been invited to attend the symposium.

Speakers scheduled for today will include Selman A. Waksman, Nobel prize winner and dicoverer of streptomycin; Dr. Felix Marti-Ibanez, former under Secretary of Health of Spain, and Drs. Maxwell Finland and Theodore Woodward, two of the leading scientists in the field of antibiotics. The chariman of the symposium will be Dr. Henry Welch, director of the division of antibiotics of the Food and Drug Administration.

## *Witco Executive V.P.*

Max A. Minnig has been elected executive vice-president of Witco Chemical Company, New York. After joining Witco's natural gas division in 1946, Mr. Minnig successively was national sales manager for rubber chemicals, director of sales and vice-president.

## Lithium Chemicals Plant Projected by New Firm

Plans have been completed for the construction by American Potash & Chemical Corporation, Los Angeles, of a plant for the manufacture of lithium chemicals near San Antonio, Tex. The facility will be owned by a newly-formed company, American Lithium Chemicals, Inc., 50.1 percent of whose stock is held by American Potash and the balance by Bikita Minerals (Private), Ltd.

Lithium ores for the plant will be supplied by the latter company from its deposit of high-grade lithium ores in Southern Rhodesia, Africa. American Potash already holds a 21.25 percent interest in Bikita Minerals. Selection Trust, Ltd., of London, is responsible for the technical management of Bikita Minerals, in which it and associates hold a 50 percent interest. The other principal stockholder is American Metal Company, Ltd.

Total capital requirements of American Lithium Chemicals and the Bikita property will be in excess of $8,000,000. A substantial portion of the amount required by American Lithium will be obtained through a bank loan. Initial production at San Antonio will be lithium hydroxide.

## Hydrocortisone Marketing Activity Reported by Pfizer

Bulk hydrocortisone acetate and free alcohol are now being marketed by the chemical sales division of Chas. Pfizer & Co., Brooklyn, N. Y., Frank F. Black, sales manager, has announced. Two bulletins, prepared by Pfizer's technical service department, "Hydrocortisone — Clinical Aspects" and "Hydrocortisone— Pharmaceutical Aspects," are available to the pharmaceutical industry.

## Patent Exchange Agreement Is Signed by Belgium and US

Signing of an agreement between the United States and Belgium to facilitate the interchange of patent rights and technical information for defense purposes was announced last week by the State department. The agreement is the third of a series being negotiated with the NATO countries and with Japan. Similar agreements have been signed with Italy and the United Kingdom.

The agreements recognize that privately-owned technology should, to the greatest extent practicable, be exchanged through commercial agreements between owners and users. They also stipulate that rights of private owners of patents and technical information should be fully recognized and protected in accordance with laws applicable to such rights.

Other provisions are intended to assure fair treatment of private owners when they deal directly with a foreign government and in cases in which private information communicated through government channels might be used or disclosed without authorization.

Another feature of the agreements relates to arrangements by which owners of patentable inventions placed under secrecy by one government may obtain comparable protection in the other country. The agreements also provide as a general rule that government-owned inventions shall be interchanged for defense purposes on a royalty-free basis.

Each of the agreements provides for the establishment of a technical property committee to be composed of a representative of each government. These committees are charged with general responsibility for considering and making recommendations on any matters relating to the agreements brought before them by either government. One of the specific functions of the committees is to make recommendations to the governments, either in particular cases or in general, concerning disparities in their laws affecting the compensation of owners of patents and technical information.

## Polio Vaccine Researchers To Share 1955 Nobel Prize

Three American doctors were awarded this year's Nobel prize for medicine last week and will share the award of about $36,000 for their work in finding new ways of growing virus for polio vaccine. Named by the Stockholm Royal Caroline Institute College, whose members award the prize, were Drs. John F. Enders of Harvard University Medical School, Boston; Thomas H. Weller of Harvard University School of Public Health, and Frederick Robbins of Western Reserve University Medical School, Cleveland, Ohio.

The three men were honored "for their discovery of the ability of the poliomyelitis virus to grow in cultures of different tissues." Drs. Enders, Weller and Robbins devised a fast method of producing polio vaccine, which had previously been impossible to produce in sufficient quantities. Their method involved growing the virus in test tubes on bits of living tissue taken from humans or from monkeys.

## Health Insurance Ads Under Attack by FTC

Chairman Edward F. Howrey last week announced that the Federal Trade Commission has issued complaints against seventeen insurance companies charging false and misleading advertising in the billion-dollar hospitalization, accident and health insurance business.

In the aggregate, the seventeen companies named in the proceedings account for annual premiums of over $300,000,000, representing about one-third of the total accident and health coverage on an individual policy basis in the United States. The four largest companies in this field—Mutual Benefit Health & Accident Association, of Omaha, Nebr. (Mutual of Omaha); Bankers Life & Casualty Company, of Chicago (The White Cross Plan); Reserve Life Insurance Company, of Dallas, Tex., and United Insurance Company, Chicago—are among the seventeen companies cited for misrepresentation of their policies.

**Follows Ten-Month Probe**

The legal proceedings instituted last week follow a nationwide investigation announced by Chairman Howrey ten months ago. The investigation grew out of a flood of letters received from American policy-holders complaining that the insurance coverage they purchased was not the coverage that had been advertised. It has been the first broad-scale FTC investigation of its kind in this field, and it was begun in the interest of protecting the large segment of the public which currently relies upon accident and health insurance coverage. The investigation is continuing.

Chairman Howrey pointed out that the accident and health insurance field has seen tremendous growth in recent years. Total 1953 premium payments for accident and health insurance amounted to more than $3,000,000,000. Of this total, over $1,000,000,000 in annual premiums are received by companies selling policies on an individual, non-group basis, and here especially advertising is widely used, chairman Howrey noted. This compares with premiums of $161,000,000 in 1935, and represents an increase of more than 200 percent over 1946. Approximately 25,000,000 persons have purchased individual policies, it was said.

In general, the proceedings are directed against the use of false or deceptive advertising claims relating to the extent of the coverage provided and the benefits payable under accident and health policies. The complaints allege the use in advertising of false representations, decep-

—*Continued on page 70*

## Polymerization Unit Planned By Borden Co. on West Coast

Borden Company, New York, has announced plans for a new polymerization unit adjacent to its industrial adhesives plant in Dominguez, Cal., and has also announced completion of the initial resin run at its new chemical operation near Mexico City, Mexico.

The new west coast unit is geared for production of 3,000,000 pounds of polyvinyl acetate emulsion a year and is expected to be completed early in January. It will bring to six the number of polymerization units in operation by the company. Borden's new Mexican operation, known as Carbon Activado, S.A., will produce urea-formaldehyde and phenolic glues, foundry resins, label pastes and packaging adhesives, industrial casein glues and a line of emulsion polymers. It was acquired from Carbon Activado, S.A., and was formerly used for production of oxalic acid.

## Roger Williams of duPont Is Perkin Medallist for '55

Roger Williams, vice-president, member of the board of directors and member of the executive committee of E. I. duPont de Nemours & Co., Wilmington, Del., has been chosen to receive the 1955 Perkin medal of the American section of the Society of Chemical Industry. The 1955 award, the forty-ninth impression of the Perkin medal, will be presented to Mr. Williams at a dinner meeting to be held January 14 at the Waldorf-Astoria hotel, New York.

Recognized as an industrial chemist of first rank, Mr. Williams is being honored for outstanding contributions to many phases of industrial chemical development. Among his accomplishments are key contributions to the development of the American synthetic ammonia and synthetic methanol industries and to the wartime atomic energy program.

## *NFA to Hear Farm Income Forecast*

A look into the future by one of the nation's leading agricultural economists will be a feature of the fall meeting of the National Fertilizer Association, to be held November 10 to 12 at the Hollywood Beach hotel, Hollywood, Fla. The group also will hear from a famous soil scientist on the subject of organic farming with chemical fertilizers, as well as an annual report from its president.

The featured speakers will be Oris V. Wells, administrator, Agricultural Marketing Service, Department of Agriculture; Dr. Richard Bradfield, head, department of agronomy, Cornell University, and Dr. Russell Coleman, NFA president. E. A. Geoghegan, Vice-president, The Southern Cotton Oil Company, and NFA chairman of the board, will preside at all sessions.

**NFA to Show New Movies**

Added features will be previews of the association's two new sound-color motion pictures now nearing completion. Titles of these new pictures are "Weather or Not" and "The Big Test." Members also will get their first look at the association's latest book—"The Care and Feeding of Garden Plants"—now being published in cooperation with the American Society for Horticultural Science. First copies are expected to be off the press November 10.

Mr. Wells will speak on "Farm Income in the Years Ahead." He is particularly noted for his ability to interpret economic situations as they relate to national farm programs. Before assuming his present position, Mr. Wells was chief of the former Bureau of Agricultural Economics, predecessor of the Agricultural Marketing Service.

Dr. Bradfield will raise the question of the desirability, or feasibility of organic matter maintenance in the soil under conditions when commercial fertilizers are available in plentiful supply. He is professor of soil technology as well as head

—*Continued on page 70*

## Lithium Output Boosted, Foote Mineral Announces

Foote Mineral Company, Philadelphia, has announced increases in its lithium hydroxide production schedules. Its Kings Mountain, N. C., spodumene mine and concentrating facilities, have recently been expanded and the production of limestone, from its mines at Sunbright, Va., has been increased to balance the flow of spodumene. Foote said that, for the first time in several years, these latest expansions should insure a balance between supply and demand for lithium chemicals.

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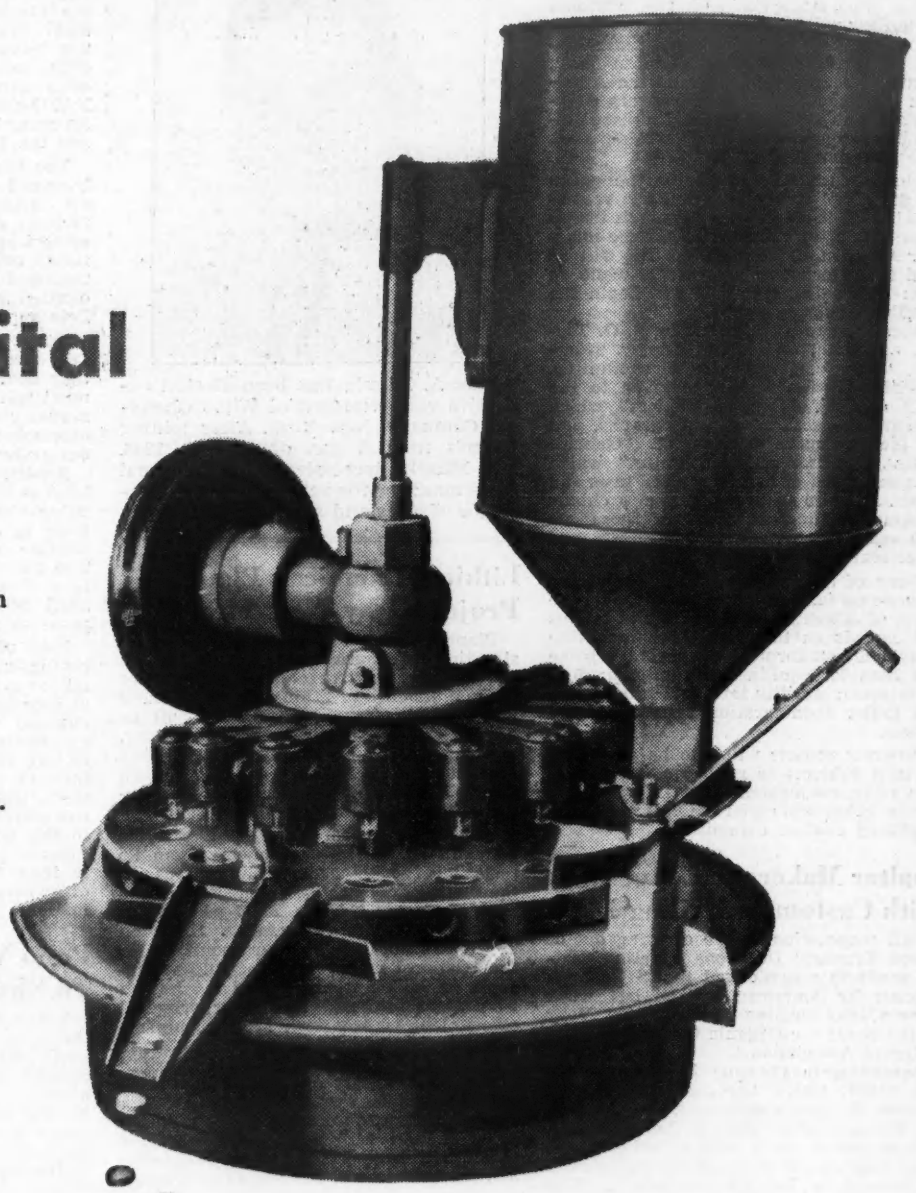

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## Association Meetings

**This Week**

Association of Consulting Chemists and Chemical Engineers, annual meeting, symposium, Belmont Plaza hotel, New York, October 26.

Glass Container Manufacturers' Institute, semi-annual meeting, Broadmoor hotel, Colorado Springs, Colo., October 25-27.

Packaging Institute, annual forum, Roosevelt hotel, New York, October 25-27.

Plastics in Building Conference, sponsored by Society of the Plastics Industry, Manufacturing Chemists' Association Building Research Advisory Board, National Academy of Sciences, Washington, D. C., October 27-28.

Air Pollution Control Association, semi-annual technical conference, Biltmore hotel, Los Angeles, November 4-6.

American Chemical Society, Dallas-Fort Worth, Tex., section, southwest regional meeting, Fort Worth, December 2-4.

American Council of Independent Laboratories, annual meeting, Roosevelt hotel, New Orleans, La., November 3-6.

American Institute of Chemical Engineers, annual meeting, Statler hotel, New York, December 12-15; Kentucky hotel, Louisville, Ky., March 20-23; Shamrock hotel, Houston, Tex., May 1-4.

American Petroleum Institute, Conrad Hilton hotel and Palmer House, Chicago, November 8-11.

American Pharmaceutical Manufacturers' Association, combined midyear and eastern section meeting, Waldorf-Astoria hotel, New York, December 6-8.

American Society for Testing Materials, committee week, Netherland Plaza hotel, Cincinnati, Ohio, January 31-February 4; annual meeting, Chalfonte-Haddon Hall, Atlantic City, N. J., June 26-July 1.

American Standards Association, Roosevelt hotel, New York, November 15-17.

American Water Works Association, annual conference, Chicago, June 12-17.

Armed Forces Chemical Association, annual dinner meeting, Savoy Plaza hotel, New York, November 17.

Association of American Soap and Glycerine Producers, annual convention, Waldorf-Astoria hotel, New York, January 26-28.

Chemical and Allied Products Group of the National Association of Purchasing Agents, Chicago, January 13; New York, Jan. 25.

Chemical and Plastic Industries Equipment Salon, Parc des Expositions, Paris, France, December 2-12.

Chemical Bureau Alumni Association of the War Production Board and National Production Authority, fall cocktail party, Washington hotel, Washington, D. C., December 2.

Chemical Institute of Canada, protective coatings division conference, Royal York hotel, Toronto, February 24, Ritz Carlton hotel, Montreal, February 25; chemical engineering division conference, Ottawa, March 7-9; annual conference and exhibition, Quebec City, Quebec, May 30-June 1.

Chemical Market Research Association, Book-Cadillac hotel, Detroit, Mich., November 17; joint meeting with Commercial Chemical Development Association, Edgewater Beach hotel, Chicago, January 20-21; annual meeting, Plaza hotel, New York, May 18-19.

Chemical Specialties Manufacturers Association, annual meeting, New Yorker hotel, New York, December 6-8.

Chlorine Institute, annual meeting, Biltmore hotel, New York, January 26.

Combined Pharmaceutical Contact Committee of ADMA and APMA, fall meeting, Sheraton-Park hotel, Washington, D. C., November 9-10.

Drug, Chemical and Allied Trades section of the New York Board of Trade, annual dinner, Waldorf-Astoria hotel, New York, March 3.

Federation of Paint and Varnish Production Clubs, annual meeting, Palmer House, Chicago, November 18-20.

Industrial Hygiene Foundation, Mellon Institute, Pittsburgh, Pa., November 17-18.

Magnesium Association, annual meeting, Chase hotel, St. Louis, Mo., November 15-17.

Manufacturing Chemists Association, semi-annual meeting and winter conference, Statler hotel, New York, November 23.

National Fertilizer Association, southern convention, Hollywood Beach hotel, Hollywood, Fla., November 10-12.

National Foreign Trade Council, annual convention, Waldorf-Astoria hotel, New York, November 15-17.

National Paint, Varnish and Lacquer Association, annual meeting, Palmer House, Chicago, November 15-17.

National Petroleum Association, spring meeting, Cleveland, Ohio, April 13-15; annual meeting, Atlantic City, September 14-16.

National Wholesale Druggists Association, annual meeting, Hollywood Beach hotel, Hollywood, Fla., November 13-18.

Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, William Penn hotel, Pittsburgh, Pa., February 28-March 4.

Plant Maintenance and Engineering Show, International Amphitheatre, Chicago, January 24-27.

Society of the Plastics Industry, annual meeting and conference, cruise on the Queen of Bermuda, May 7-15.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Commodore hotel, New York, November 10.

Toilet Goods Association, scientific section meeting, Waldorf-Astoria hotel, New York, December 8; annual meeting, Waldorf-Astoria hotel, New York, May 10-12.

World Petroleum Congress, Rome, June 6-15.

# Pharmacy's Public Health Role Is Told at Columbia Bicentennial

The contributions of pharmacy, in all its segments from laboratory research through manufacturing to dispensing, to the health service of the public were presented and evaluated from a number of points of view at a conference held October 14 and 15 at Columbia University, New York, in honor of the bicentennial of that institution and the one hundred twenty-fifth anniversary of its College of Pharmacy.

With the theme, "Pharmacy and the Conquest of Disease," the pharmacal division of the conference comprised four sessions successively presided over by George W. Merck of Merck & Co., Rahway, N. J.; E. Emerson Leuallen, dean of the College of Pharmacy; Leo Roon, who recently retired from Nuodex Products Company, Elizabeth, N. J., and Myron Walker of Walker Laboratories, Inc., Mount Vernon, N. Y. Three aspects of the general theme were covered at each session in a program prepared under the direction of Dr. William Feirer of E. R. Squibb & Sons Division of Olin Mathieson Chemical Corporation, New York, and Dr. John McDonald of Schering Corporation, Bloomfield, N. J. Publication of the proceedings for distribution is planned.

**Drugs in Nutrition**

Citing difficulties encountered in attempting to distinguish nutrients from drugs on the basis of function, Dr. William H. Sebrell, jr., director of the National Institutes of Health, Public Health Service, explored the application of nutrients in the treatment of health disorders, covering vitamins, minerals and other borderline materials, along with the similarity of various chemical and metabolical reactions. Statistical data on vitamins were presented to illustrate the valuable contributions of manufacturing and dispensing pharmacy to nutritional and health progress.

Further needs in that direction were outlined in areas of chemical diseases and nutritional therapy, informative reference being made to the role of vitamins in the latter area. Possibilities of increasing the nutritional resources of the world by way of antibiotics and amino acids were analyzed in the light of nutrition science in which there is a challenge of ingenuity and resourcefulness for pharmacy as a whole.

**Cancer Control Gains Reported**

Evaluation of the progress made toward the control of cancer in man, with emphasis on the challenge to pharmacy in the need of "drugs designed to defeat death," was made by Dr. Cornelius P. Rhoads, scientific director of the Memorial Center for Cancer and Allied Diseases. Questioning the popular belief that applied investigation interferes with the possibility of fundamental discovery, the center sought the aid of the pharmaceutical industry and now has a contract with forty-two laboratories, in which both industry and the public are protected.

The result has been for a number of years a constant flow of compounds and information from industry and of data and suggestions to industry. Without that cooperation, the speaker said, the results so far achieved would have been impossible. Promising contributions cited included those made by Burroughs Wellcome & Co., Tuckahoe, N. Y., Lederle Laboratories, Pearl River, N. Y., and other divisions of the American Cyanamid Company, and Parke, Davis & Co., Detroit, Mich. Overall progress has been made, and expectations of further progress are felt to be justified.

**Growth of Antibiotics Detailed**

The birth and growth of a huge new drug industry out of the discovery of the first antibiotic over the past twelve years were appraisingly reviewed by Dr. Henry Welch, director of Food and Drug Administration's division of antibiotics, in a contribution on "Golden Bullets and the Widening Spectrum in Chemotherapy in Infectious Diseases." The statistical data he presented were stupendous in a commercially economic sense. They were also beneficially informative in therapeutic nutritional, agricultural, anaphylactic and dyscrasic areas. The expressed conclusion was that much has been accomplished and much will be done where still needed in the treatment of infectious diseases.

The enormous extent of the prevalance of mental disorders, involving more than 700,000 patients and an expectable ratio of one in ten with some need in psychotherapy were set out by Dr. Nathan S. Kline, director of research at Rockland State Hospital, in a discussion of the pharmaceutical approach to mental diseases. The roles of analeptics, anodynes, antibiotics, antishock agents, antispasmodics, barbiturates and endocrines in the treatment of mental diseases were outlined, with special reference to results in syphilis, epilepsy and schizophrenia and degenerative diseases of the aged. Applications and results of several drugs were reported, including those of the newer agents, chlorpromazine and reserpine.

**Endocrine Progress Reviewed**

In a comprehensive review of the progress in production and application of endocrines, natural and synthetic, Dr. W. W. Swingle, Conklin professor of biology at Princeton University, referred with wide appreciation to the part played by all segments of pharmacy, and noted the dependence thereupon of the physician and the patient. "The pharmacists," he said, "can keep pace with the times and retain an honored place in the scientific and professional world by continued efforts in research, education and controlled distribution of useful drugs."

"The aging problem is not one of years but of conditions," said Dr. Harry Gold, professor of clinical pharmacology at Cornell University Medical College, in a commentary on the role of cardiac drugs in connection with that problem. A major condition is the failing heart; but that has recently acquired a new aspect as a cause of death by reason of pharmacologic developments. By means of chart slides he showed the encouraging and lifesaving results obtained by systematic treatment with organic mercurial diuretics and highly purified digitoxin or other digitalis glycosides.

This advance he considered great, but perhaps without meaning in the desired clinical evaluation. The system requires trained personnel and properly equipped institutions. The development of a method for administering the drugs otherwise than by injection would be beneficial. So, overall would be a better system for the interchange of information and needs between clinical and laboratory pharmacologists.

**Economic Aspects Recounted**

An imposing and informative array of statistical and interpretative data on the economic aspects of today's gains in health was presented by Dr. Louis I. Dublin, consultant on health and welfare for the Institute of Life Insurance. For the most part qualitative, but with a measure of the quantitative, the data translated the progress made in the saving of lives in the early and elderly years into terms of economic usefulness, especially in the productive period of man's years.

Better health has meant more people, better able to fulfill their economic roles. The speaker made an impressive appraisal of the contributions of private medical and pharmacal services to the better health of the public. He urged that research on the problem of still better serv-

—Continued on page 53

## Morton Chemical Sales Mgr.

Thomas C. Dabovich has been named general sales manager of the chemical division of Morton Salt Company, Chicago. Previously Mr. Dabovich served as sales manager of the industrial chemical division of J. T. Baker Chemical Company, Phillipsburg, N. J., and as western regional sales manager for Sharples Chemicals, Inc., at Wyandotte, Mich.

## Foreign Trade Council To Hear Gov't Chiefs

Conditions affecting United States international trade and investment will be analyzed and recommendations concerning the country's foreign economic policy will be issued at the forty-first convention of the National Foreign Trade Council to be held November 15 to 17 at the Waldorf-Astoria hotel, New York.

Government speakers will include Ezra Taft Benson, Secretary of Agriculture; Robert Murphy, deputy under Secretary of State; Sen. John Marshall Butler of Maryland; Samuel W. Anderson, assistant Secretary of Commerce; Capt. W. B. Thorp, USN (Retired), deputy for defense economic affairs, office of foreign military affairs, office of assistant Secretary of Defense (international security affairs), and Hawthorne Arey, director of the Export-Import Bank.

Robert Marjolin, secretary general, Organization for European Economic Cooperation, will be in New York to address the Europe luncheon November 17. Another speaker from outside the United States will be J. R. White, president, Imperial Oil, Ltd., Toronto, who will talk on the morning of the fifteenth.

Among the features of the three-day parley will be special panel discussions, led by business and government experts, dealing with the following subjects:—Financing of international trade; merchandising, transportation and insurance; American direct investments abroad; education; current trade questions, and taxation of income from foreign sources.

Clarence B. Randall, chairman of Inland Steel Company and special consultant to President Eisenhower on foreign economic policy, will be presented with the 1954 Captain Robert Dollar memorial award at the world trade dinner on the evening of the seventeenth.

## Soap, Glycerine Producers Plan Convention Jan. 26-28

The Association of American Soap and Glycerine Producers has announced that it will hold its annual convention in New York on January 26 through 28 at the Waldorf-Astoria hotel.

The first day of the meeting will be concerned with the technical field of fatty acids and the production of chemicals from fats. Soap and detergents merchandising will be stressed January 27 and 28, along with a general review of the nation's economy. In addition to the field of household cleanliness products, divisional meeting will be held on glycerine, on industrial soaps and detergents and on specialty soap products.

The banquet of the association has been scheduled for January 28. Nationally-known speakers will be presented at luncheons on September 27 and September 28, but there will be no speaker at the banquet.

## ACS '54 Midwest Award Going to Dr. R. M. Hixon

Dr. Ralph M. Hixon, dean of the graduate school at Iowa State College, has been chosen to receive the 1954 midwest award of the American Chemical Society's St. Louis, Mo., section. Dr. Hixon will receive the award, an inscribed gold medallion, at a banquet of the St. Louis section on November 1.

Dr. Hixon has contributed to the development of improved high-yield hybrid corn and has conducted important investigations in carbohydrate chemistry. Fundamental studies which he directed helped the country meet its need for starch when imports dwindled during World War II. He was cited by the midwest award jury for his studies of the chemistry of many agricultural products and his realization of their industrial potentialities.

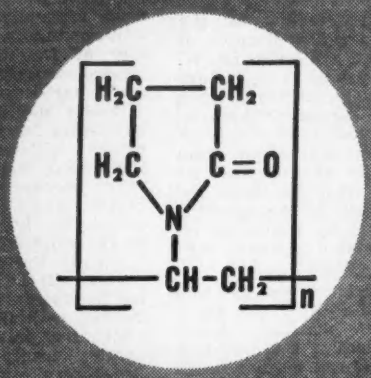
## Armed Forces Association To Hear Creasy Nov. 17

Maj. Gen. William H. Creasy will be a featured speaker at the annual dinner meeting for the Armed Forces Chemical Association, to be held November 17 at the Savoy Plaza hotel, New York. Gen. Creasy's topic will be "The Importance of the Military-Civilian Team." Reservations for the dinner are being handled by W. E. Spicer, of Lambert Pharmacal Company, Jersey City, N. J.

## Chemical Bureau Party Set

The Chemical Bureau Alumni Association of the War Production Board and the National Production Authority will hold its fall cocktail party December 2 at the Washington hotel, Washington, D. C.

gaf's pure versatile polymer for industry

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- food (stabilizer, thickener, flavor improver,etc.)
- detergent (soil suspension, detoxifier, etc.)
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- also agricultural chemicals...lithography ...adhesives and coatings...paper...plastics ...rubber and many others.

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*From Research to Reality*

# Current Market Quotations

## Chemicals and Related Materials

All matters under this heading fully protected by copyright.

**Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, October 22 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views.**

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## A

Acacia (see Gum arabic).

Acenaphthene, below 92.5 C., m.p., dms. works lb. .40 - —
above 92.5 C., m.p., bbls., dms., works lb. .41 - .50

Acetaldehyde, 99%, dms., c.l., frt. equald lb. .1250- .1435
l.c.l. frt. equald lb. .1350- .1535
tanks, frt equald lb. .1050- .1300

Acetaldol (see Aldol).

Acetanilide, tech., bbls., c.l., dlvd. lb. .29 - —
ton lots lb. .30 - —
smaller lots lb. .30½- —
USP, bbls., 2,000-lb. lots lb. .80 - —
smaller lots lb. .81 - .86

Acetic anhydride, dms., c.l., dlvd. E. lb. .15½- —
l.c.l., dlvd. E lb. .17 - —
tanks, dlvd. E lb. .14 - —

Acetoacetanilide, fib. dms., c.l., dlvd lb. .75 - —
l.c.l., dlvd. lb. .76 - —

Acetoacet-o-chloroanilide, fib., dms., c.l., dlvd lb. 1.27 - —
l.c.l., dlvd. lb. 1.28 - —

Acetoacet-o-toluidide, fib., dms., c.l., dlvd lb. .78 - —
l.c.l. dlvd lb. .79 - —

Acetone, CP, dms., c.l., dlvd. lb. .10 - —
l.c.l., dlvd. lb. .11 - —
tanks, dlvd. lb. .08 - —

Acetonitrile, dms., c.l., works lb. .45 - —
l.c.l., works lb. .47 - —

Acetophenetidine, USP, bbls., works, frt. equald lb. 1.15 - 1.17

Acetophenone cns., dms. lb. 1.21 - 1.85
tech., dms., l.c.l., works lb. .75 - —

p-Acetylaminobenzaldehyde thiosemicarbazone, dms, frt. adjusted. lb. 17.50 - 21.00

N-Acetyl-p-aminophenol, dms., frt. adjusted lb. 1.75 - 1.85

Acetyltributyl citrate tech. dms., c.l., works lb. .33½- —
l.c.l., works lb. .34½- .38½
tanks, works lb. .32 - —

Acetyltriethyl citrate, tech., dms., c.l., works lb. .37½- —
l.c.l., works lb. .38½- —
tanks, works lb. .36 - —

Acid, abietic, coml., dms., c.l., works lb. .12 - —
l.c.l., ex whse lb. .1490- —
cryst., dms. c.l. works lb. .06½- —
l c l works lb. .07 - .07½

Acetic, coml., or redist., 28%, bbls. 100 lbs. 4.80 - —
56%, bbls. 100 lbs 8.25 - —
70%, bbls. 100 lbs. 9.95 - —
80%, bbls 100 lbs. 10.45 - —
glacial, syn., CP, dms., dlvd. 100 lbs. 15.00 - 16.00
tech., dms., c.l., dlvd 100 lbs. 10.50 - 12.00
l.c.l., same basis 100 lbs. 11.00 - 13.00
tanks, dlvd 100 lbs. 10.00 - —
USP cbys., inclusive, dlvd., 100 lbs. 24.00 - 25.00

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic, USP special, bbls., makers, primary distrib., point of shipt., 1,000-lb. lots lb. .60 - —
standard, fine, cryst., gran., (30-40 mesh) powd., (80 mesh), bbls., 1,000-lb. lots. lb. .53 - —

Freight equald, shipt. identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Adipic, fib. dms., works lb. .37 - .37½
Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 - 1.75
p-Aminobenzoic, tech., dms., works lb. 1.74 - 1.77
USP, dms., 1,000-lb. lots or more, works lb. 2.50 - —
smaller lots, works, same basis lb. 2.55 - 2.60
p-Aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.00 - —
smaller lots, same basis lb. 4.05 - 4.50
Anthranilic, bbls., frt. equald lb. 1.21 - —
Arsenous, tech., (see Arsenic, white).
USP (see Arsenic trioxide).
Ascorbic USP dms., 25-50 kilo lots. kilo. 16.00 - —
10-kilo lots kilo. 16.35 - —
5-kilo lots kilo. 16.75 - —
bots., 1-kilo lots kilo. 17.00 - —
500-gram lots kilo. 17.50 - —
Battery cbys. c.l., works, E. 100 lbs. 2.35 - —
l.c.l., works, E 100 lbs. 2.65 - 3.45
Benzoic, tech. bbls., dms., 100-lb. lots or more lb. .44 - —
USP, bbls., dms. 100-lb. lots or more lb. .54 - —
Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).
Betaoxynaphthoic (see Acid, b-Oxynaphthoic).
Boric, tech. 99½%, cryst., bgs., c.l., works ton. 124.25 - —
ton lots, ex whse., N. Y. or Chi ton. 172.00 - —
smaller lots, same basis, ton. 177.00 - —
bbls., c.l., works ton. 148.75 - —
ton lots, ex whse., N. Y. or Chi ton. 196.50 - —
smaller lots, same basis, ton. 201.50 - —
gran., bgs., c.l., works ton. 99.25 - —
ton lots, ex whse., N. Y. or Chi ton. 147.00 - —
smaller lots, same basis, ton. 152.00 - —
bbls., c.l., works ton. 123.75 - —
ton lots, ex whse., N. Y. or Chi ton. 171.50 - —
smaller lots, same basis, ton. 176.50 - —
bulk, c.l., works ton. 94.25 - —
Acid, boric, tech., powd., bgs., c.l., works ton. 104.25 - —
ton lots, ex whse., N. Y. or Chi ton. 152.00 - —
smaller lots, same basis, ton. 157.00 - —
bbls., c.l., works ton. 128.75 - —
ton lots, ex whse., N. Y. or Chi ton. 176.50 - —
smaller lots, same basis, ton. 181.50 - —

Boric acid in kegs $45.50 per ton higher than in paper bgs. USP boric acid $25 per ton higher.

Broenners, bbls lb. 1.76 - —
Butyric, 99%, dms., c.l., works, lb. .34 - —
l.c.l., works lb. .34½- —
tanks, works lb. .32½- —
Cacodylic, bots lb. 10.50 - 13.00
Camphoric, nat., dms lb. 4.00 - 4.75
syn., dms. lb. 4.00 - 4.75
Capric, dms lb. .25¼- .27
Caprylic, dms lb. .27¾- .29½
Cassella dms., 100% basis, frt., alld lb. 1.44 - 1.75
Castor oil, split, dms lb. .35½- .36
Chicago, bbls. frt alld lb. 3.21 - —
Chloroacetic, mono-, purif., flake, 99% dms lb. .23½- .25½
tech., flake, 96-97%, frt. equald, dms lb. .20 - .21
o-Chlorobenzoic, fib. dms., works lb. 1.13 - —
p-Chlorobenzoic, fib. dms., works lb. 1.59 - 1.63
Chlorosulfonic, dms., c.l., frt. equald lb. .0465- —
l.c.l., frt. equald lb. .0515- —
tanks, frt equald lb. .0415- —

Acid, chlorosulfonic, in stainless steel dms. ½c. per lb. higher.

Cholic, 100-lb. lots, fib. dms. lb. 6.00 - 6.25
Chromic 99¾%, dms., c.l., works lb. .27½- —
l.c.l., works lb. .28 - .29

NF (see Chromium trioxide).

Cinnamic, refd., bots lb. 2.50 - 3.50
Citric, USP, anhyd., gran., fine gran dms., c.l lb. .23¾- —
10,000-lb. lots, 1 shipt. lb. .29¼- —
smaller lots lb. .29¾- .31¼
hydrous gran., fine gran., dms., c.l lb. .27 - —
10,000-lb. lots, 1 shipt. lb. .27½- —
smaller lots lb. .28 - .29½

Powdered citric acid ½c. higher.

Acid, Cleve's, mixed, bbls lb. .79 - —
Coconut oil, dist., dms lb. .23¾- .25½
tanks lb. .22 - —
dbl. dist., dms lb. .24½- .26¼
tanks lb. .23¾- —
Corn oil, dist., dms lb. .13¾- .15½
tanks lb. .12 - —
Cottonseed oil, dist., dms lb. .13 - .14¼
tanks lb. .11¼- —
2,3-Cresotic, dms., ton lots, works. lb. .66 - —
smaller lots lb. 1.82 - 2.00
Cresylic, coaltar, dom., 50% 207°C or above, ret dms, c.l., frt. equald gal. .98 - —
l.c.l., same basis gal. 1.03 - —
non-ret., dms., c.l., same basis gal. 1.01 - —
l.c.l., same basis gal. 1.04 - —
tanks, same basis gal. .90 - —
204° to 207°C., ret., dms., c.l., same basis gal. 1.03 - —
l.c.l., same basis gal. 1.08 - —
non-ret., dms. c.l. same basis gal. 1.06 - —
l.c.l., same basis gal. 1.09 - —
tanks, same basis gal. .95 - —
imp. 75% at 215°C. or over, dms. ex whse gal. .75 - .90
petroleum, dom., 195° to 213°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .71 - —
l.c.l., same basis gal. .73 - .75
tanks, same basis gal. .58 - —
200° C. to 222° C., tanks, Wilmington, Cal gal. .58 - .63
211° C. to 236° C., non-ret. dms., c.l., San Francisco and Los Angeles gal. .63 - —
l.c.l., same basis gal. .65 - .67
tanks, same basis gal. .50 - —
220° C. to 242° C., tanks, Wilmington, Cal gal. .50 - .53
243° C. to 298° C., tanks, Wilmington, Cal gal. .46 - —
Crotonic, fib. dms., 200 lbs. or more, works lb. .44 - —
Cyanoacetic, tech., bbls lb. .90 - 1.25
Dehydrocholic, injection, fib. dms. 100-lb. lots lb. 14.75 - —
oral, fib. dms., 100-lb. lots lb. 10.25 - —
Desoxycholic, fib. dms, 100-lb. lots. lb. 15.00 - —
Dichlorophenoxyacetic (see under D' 2,4-D)
Diethylbarbituric (see Barbital)
Diglycolic, bgs., works lb. .14 - —
Acid, 2-ethyl hexoic, dms., c.l., works lb. .35 - —
l.c.l., works lb. .35½- —
tanks, works lb. .33½- —
F, crude, paste, bbls., works lb. 2.10 - —
Folic, bots., fib. cns kilo-lots or more gram. 1.60 - —
Formic, 85%, cbys., c.l., works lb. .1570- —
l.c.l., works lb. .1620- .1720
90%, cbys., c.l., works lb. .1625- —
l.c.l., works lb. .1675- .1775
Fumaric, tech., bgs., dms lb. .27 - .28
Gallic, NF VII, bbls., 1,000-lb. lots. lb. 1.80 - —
smaller lots lb. 1.82 - 2.00
tech., bbls., 1,000-lb. lots lb. 1.58 - —
smaller lots lb 1.69 - 1.75
Gamma, dry, grd., bbls., frt. alld. lb. 1.50 - —
paste, bbls., frt. alld lb 1.45 - —
Gentisic, 100-lb. fib. dms lb. 8.50 - —
Gluconic, tech., 50% bots lb. .25 - .35
cbys. lb. .19 - —
dms. lb. .15½- —
l-Glutamic, 99½% fib. dms., 100 lb lots works lb 2.45 - 2.53
25-lb. lots, works lb. 2.54 - 2.60
Glycerophosphoric, 35%, dms., works lb. 2.25 - 2.35
Glycolic (see Acid hydroxyacetic).
H, dry, bbls., works, 100% basis, lb. .82 - —
paste, bbls., works, 100% basis, lb. .80 - —
Hydriodic, 1.50 s.g., cbys lb. 2.94 - —
1.70 s.g., cbys lb. 3.23 - —
Hydrobromic, medicinal, 48%, cbys., dlvd E lb .37 - .43
Hydrochloric, anhyd. (see Hydrogen chloride).
18° cbys., c.l., works 100 lbs. 2.50 - —
l.c.l., dlvd Metropolitan area 100 lbs. 2.90 - 3.05
tanks, works, frt. equald ton. 28.00 - —
20° cbys., c.l., works 100 lbs. 2.60 - —
l.c.l., dlvd Metropolitan area 100 lbs. 3.00 - 4.00
tanks, works, frt. equald ton. 30.00 - —
22° cbys. c.l., works 100 lbs. 2.15 - —
l.c.l. dlvd Metropolitan area 100 lbs. 3.25 - 4.50
tanks, works, frt. equald ton. 35.00 - —
CP, USP, consumers, cbys., extra c.l. works lb. .11¾- —
l.c.l. same basis lb. .13¼- .13¾
5-pint bots., extra, cs., c.l., same basis lb. .16¾- —
l.c.l. same basis lb. .19¼- —

Acid, hydrochloric, CP, USP, prices to dealers 1½c per lb less.

Hydrocyanic, cyls., frt. alld lb. .75 - 95
dilute NF 2% 5-lb bots lb 40 —
Hydrofluoric, anhyd. (see Hydrogen fluoride).
tanks, works lb. .21 - —
70%, steel dms., works lb. .18½- .22½
Hydrofluosilicic, basis 35%, dms., works lb. .06 - —
Hydroxyacetic, tech., 70%, non-ret. bbls., Phila., 100% basis lb. .136 - —
tanks, Belle, W. Va., 100% basis lb. .095 - —
Hypophosphorus, purif., 50%, cbys lb. 1.30 - 1.32
USP, cbys lb. 88 - —
Isonicotinic, 100 lb fib dms, works lb. 5.00 - —
Hydrazide (see Isoniazid).
J, bbls., works, 100% basis lb. 2.50 - 2.85
Koch, bbls., frt. alld lb. .64 - .70
L, bbls., works lb. 1.25 - —
Lactic, edible, 50%, bbls., 20 or more lb. .17 - .20
smaller lots lb. .1750- .2100
80% bbls., 5 or more lb. .30 - .3640
smaller lots lb. .305 - .3699
USP, 85%, cbys lb. .85 - .88
plastic grade, 50%, bbls., 20 or more, works lb. .2175- —
1 to 19 lb. .3225- .3278
80% bbls., 5 or more lb. .3818- —
tech., 22%, bbls., c.l., works 100 lbs. 6.30 - —
l.c.l., works 100 lbs. 6.70 - —
cbys., l.c.l., works 100 lbs. 7.20 - 12.20
44% bbls., c.l., works 100 lbs. 11.45 - 11.98
l.c.l., works 100 lbs. 11.15 - 12.50
Laurent's, bbls lb. .60 - —
Lauric, 90%, dms lb. .35¼- .37
Linseed oil, dist., dms lb. .2025- —
w. w., dms lb. .2325- —
Maleic, cryst., powd., dms lb. .37 - .38
Malic, tech., dms lb. .50 - —
Mandelic, NF, dms., 1,000-lb. lots. lb. 2.35 - —
smaller lots lb. 2.40 - 2.50
Metanilic, dms., works lb. .57 - .75
Methacrylic, glacial, 98%, dms., truckloads, works lb. .54½- —
smaller lots, works lb. .55 - —
Molybdic, 85-92%, dms. works lb 1.27 - —
Monochloroacetic, purif. (see Acid, Chloroacetic mono-).
Muriatic (see Acid, hydrochloric)
Myristic, dms lb. .28 - .29½
Naphthenic, 220-230 acidity, dms., works lb. .13¼- —
tanks, works lb. .11¼- —
Naphthol (1)-4-sulfonic (see Acid Neville and Winthers)
Naphthol(1)-5-sulfonic (see Acid, L).
Naphthol(1)5-sulfonic,8-amino (see Acid, S).
Naphthol(1)-3,6-disulfonic,8-amino (see Acid H).
Naphthol(2)-6,8-disulfonic (see Acid, Gamma)
(5)-7-Sulfonic,2-amino (see Acid, J).
Naphtholsulfonic, mixed (see Acid, Cleve's, mixed).
Naphthylamine(1)-5-sulfonic (see Acid, Laurent's).
(2)-6-sulfonic (see Acid, Broenner's).
(2)-7-sulfonic (see Acid, F).
(2)-1-sulfonic (see Acid, Tobias).



## *Abbreviations*

### *Used in OPD Market Quotations*

| | | | | | |
|---|---|---|---|---|---|
| alld. | allowed | distr. | distributor | NNR | New and Nonofficial Remedies |
| amorph. | amorphous | djns. | demijohns | No. | number |
| AMP | American melting point | dlvd. | delivered | nom. | nominal |
| anhyd. | anhydrous | dms. | drums | o- | ortho |
| a.p.a. | available phosphoric acid | dom. | domestic | ord. | ordinary |
| artif. | artificial | E. | east | oz. | ounce |
| ASTM | American Society for Testing Materials | e.p. | end point | p- | para |
| Atl. | Atlantic | equald. | equalized | Pac. | Pacific |
| Be. | Baume | exp. | expressed | pf. | proof |
| bbls. | barrels | F. | fahrenheit | phos. | phosphate |
| bgs. | bags | ferment. | fermentation | photo. | photographic |
| bls. | bales | f.f.a. | free fatty acid | pkgs. | packages |
| bots. | bottles | f.f.c. | free from chlorine | powd. | powdered |
| b.p. | boiling point | fib. | fiber | precip. | precipitated |
| b.p.l. | bone phosphate of lime | f.o.b. | free on board | prod. | producer |
| b.r. | boiling range | f.p.a. | free of prussic acid | pt. | point |
| bxs. | boxes | frt. | freight | pulv. | pulverized |
| C. | centigrade | gal. | gallon | purif. | purified |
| cbys. | carboys | gran. | granular | redist. | redistilled |
| CD | completely denatured | grd. | ground | refd. | refined |
| c.i.f. | cost, insurance, freight | i.&a. | iron and aluminum | refy. | refinery |
| cks. | casks | i.b.p. | initial boiling point | reg. | regular |
| c.l. | carlots | imp. | imported | resub. | resublimed |
| cns. | cans | incl. | included | ret. | returnable |
| coml. | commercial | indust. | industrial | SD | specially denatured |
| conc. | concentrated | kgs. | kegs | s.d. | single distilled |
| CP | chemically pure | l- | laevo | S. E. | southeast |
| cps. | centipoises | lacq. | lacquer | sec. | secondary |
| cryst. | crystal | lb. | pound | secs. | seconds |
| cs. | cases | l.c.l. | less than carlots | s.g. | specific gravity |
| ctns. | cartons | liq. | liquid | shipt. | shipment |
| cyls. | cylinders | m- | meta | soln. | solution |
| d- | dextro | m.a.p. | mixed aniline point | s.u. | standard unit |
| dbl. | double | min. | minimum | syn. | synthetic |
| denat. | denatured | m.p. | melting point | tanks. | railroad tankcars |
| dest-dist. | destructive-distilled | N- | nitrogen | tech. | technical |
| dl- | dextro-laevo | n- | normal | tert- | tertiary |
| dist. | distilled | nat. | natural | USP | U. S. Pharmacopoeia |
| | | neut. | neutral | vis. | viscosity |
| | | NF | National Formulary | VM&P | varnish makers & painters |
| | | | | W. | west |
| | | | | whse. | warehouse |
| | | | | w. w. | water-white |

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

## Acid, Nevile and Winther's — Alcohol, Ethyl

Acid, Nevile and Winther's, dms., frt. alld lb. 1.20 - —
Nicotinic, USP, dms., frt. adjusted silo 9.00 9.30
Amide, USP, (see Nicotinamide).
Nitric 36° Be cbys., c.l., works, E. 100 lbs. 5.75 - —
l.c.l., works, E 100 lbs. 6.05 - 6.85
38° Be cbys., c.l., works, E. 100 lbs. 6.25 - —
l.c.l., works, E 100 lbs. 6.55 - 7.35
40° Be, cbys., c.l., works, E 100 lbs. 6.75 - —
l.c.l., works, E 100 lbs. 7.05 - 7.85
42° Be cbys., c.l., works, E. 100 lbs. 7.25 - —
l.c.l., works, E 100 lbs. 7.55 - 8.35
58.5 to 68% $HNO_3$, tanks, works, 100% basis 100 lbs. 3.90 - —
94½ to 95½% $HNO_3$, tanks, works, 100% basis 100 lbs. 4.90 - —
CP, NF, consumers, cbys., extra c.l., works lb. .13½- —
l.c.l., same basis lb. .15 - .15½
5 pint bottles, extra, cs., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .19 - .25
p-Nitrobenzoic, dms., c.l., works lb. .72 - —
l.c.l., works lb. .73 -
Oleic, single dist., dms lb. .15¾- .17½
tanks lb. .14 - —
double dist., (white), dms lb. .18¼- .20
tanks lb. .16½- —
Oleum (see Acid, sulfuric, fuming).
Orthochlorobenzoic (see Acid, o-Chlorobenzoic).
Orthocresotinic (see Acid, 2,3-Cresotic).
Oxalic, bbls., c.l., works lb. .16½- —
10,000-lb. lots, works lb. .16¾- —
smaller lots, works lb. .17¾- —
b-Oxynaphthoic, bbls., works lb. 1.14 - —
Palm oil, dbl. dist., dms lb. .13¼- .15
Para-aminobenzoic (see Acid, p-Aminobenzoic)
Acid, para-aminosalicylic (see Acid, p-Aminosalicylic).
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid, p-Nitrobenzoic)
Paratoluidinmetasulfonic (see Acid, p-Toluidine m-sulfonic)
Phenylacetic, pure, cryst., cns. lb. .75 - 1.70
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see Acid, mandelic).
Phosphoric, food grade, 75%, cbys, c.l., works 100 lbs. 7.30 - —
l.c.l., works 100 lbs. 7.80 - 8.30
tanks, works 100 lbs. 5.10 - —
NF, 85%, cbys., c.l., works lb. .08½- —
l.c.l., works lb. .09 - .09½
Picric, NF, bbls. lb. .60 - —
tech., bbls. lb. .34 - .35
Propionic, syn., pure, dms., c.l., works lb. .21 - —
l.c.l., works lb. .22 - —
tanks, works lb. .19 - —
Pyrogallic, NF, (see Pyrogallol) tech., bbls lb. 2.76 - 2.99
Ricinoleic (see Acid, castor oil, split).
S, bbls., works lb. 3.25 - —
Salicylic, crude, fib. dms lb. .37 - —
sublimed, tech., fib. dms., c.l. lb. .39 - —
l.c.l. lb. .46 - —
dyestuffs grade, fib. dms lb. .41 - —
USP, cryst., fib. dms lb. .48 - —
powd., fib. dms lb. .53 - —
Sebacic, purif., dms., c.l., works. lb. .64 - —
l.c.l., works lb. .66 - .70
Soybean oil, dbl. dist., dms lb. .15¾- .17½
tanks lb. .14 - —
s. d., dms lb. .14¼- .16
tanks lb. .12½- —
Acid, stearic, dbl. pressed, bgs lb. .12¾- .14½
single pressed, bgs lb. .12¼- .14
triple-pressed, bgs lb. .15 - .16¾
Succinic, purif., cryst., bbls., works lb. .62 - .75
Sulfanilic, tech., dms., c.l., frt. alld lb. .19 - —
l.c.l., frt. alld lb. .21 - —
Sulfuric, 60° Be, cbys., c.l., works 100 lbs. 2.00 - —
l.c.l., works 100 lbs. 2.45 - —
tanks, works ton. 18.60 - —
66° Be, cbys., c.l., works 100 lbs. 2.25 - —
l.c.l., works 100 lbs. 2.55 - 3.35
tanks, works ton. 22.35 - —
93%, tanks, works ton. 23.50 - —
99-100%, tanks, works ton. 23.95 - —
CP, NF, consumers cbys, extra, c.l., works frt. equald lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¾
5 pt. bott., extra, cs., c.l., works, frt. equald lb. .13¼- —
l.c.l. same basis lb. .14¾- .20¾
oleum, 20%, tanks, works ton. 25.00 - —
40% tanks, works ton. 29.00 - —
65% tanks, works ton. 39.50 - —
Tallow, dist., dms lb. .12½- .14¼
hydrogenated, bgs lb. .11¾- .15½
rubbermakers, bgs lb. .10¼- .12
Tannic, NF, fluffy, bbls., 1,000-lb. lots lb. 1.59 - 1.60
smaller lots lb. 1.65 - 1.76
powd., bbls., 1,000-lb. lots lb. 1.50 - —
smaller lots lb. 1.51 - 1.69
tech., dms lb. .95 - —
Tartaric, USP, dom., 230 or 250-lb., dms., c.l lb. .37 - —
10,000-lb. lots, 1 shipt. lb. .37½- —
smaller lots lb. .38 - —
100-lb dms lb. .39 - —
small dms lb. .41 - .47
imp., bgs. lb. .34 - .35
Acid, thioglycolic, refd., cbys., 100% basis lb. 1.80 - 1.86
Tobias, bbls., frt. alld lb. .74 - —
Toluenesulfonic, dms., c.l., works, lb. .16 - —
l.c.l., works lb. .17½- —
p-Toluidine-m-sulfonic, bbls., works lb. .92 - 1.04
Trichloroacetic, bots. lb. 2.00 2.50
Trichlorophenoxyacetic (see under '2' 2,4,5T)
Undecylenic, dms lb. 1.40 - —
Aconite root, bls lb. .50 - .55
Aconitine, cryst., potent, bots oz. 78.00 -85.00
Acrolein, tech., dms., c.l., works lb. .47 - —
l.c.l., works lb. .47½- —
Acrylonitrile, dms., c.l., works lb. .33 - —
l.c.l., works lb. .34 - —
tanks, works lb. .31 - —
ACTH, cryst., bulk, 1,000 units/gram, bots. gram 15.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH).
Agar, USP, Kobe No. 1, strip, bls. lb. 2.90 - 3.10
powdered, 30 mesh, fib., dms lb. 3.40 - 3.50
dl-Alanine, dms., works lb. 8.50 -11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms., c.l lb. .65 .80
Egg, edible, flake, bbls lb. 1.27 - 1.29
powd., bbls lb. 1.31 - 1.33
tech., cryst., bbls lb. .85 - .87
Alcohol, allyl, dms., c.l., dlvd lb. .32 - —
l.c.l., dlvd lb. .33 - —
tanks, dlvd lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, refd.)
ferment., refd., 128°-132°C., dms., l.c.l., dlvd lb. .34 - —
ACS grade, dms., c.l., dlvd lb. .36 - —
ex-pentane, mixed, amyls, dms., c.l., frt. alld lb. .17 - —
l.c.l., frt. alld lb. .18 - —
tanks, frt. alld lb. .15 - —
primary, dms., c.l., frt. alld. lb. .19¼- —
l.c.l., frt. alld lb. .20¼- —
tanks, frt. alld lb. .17¼- —
sec-synthetic, dms., c.l., frt. alld., works lb. .18 - —
l.c.l., works lb. .19 - —
tanks, works lb. .16 - —
tert-synthetic, dms., c.l., frt. alld. E lb. .17 - —
l.c.l., frt. alld. E lb. .18 - —
tanks, frt. alld. E lb. .15 - —
1-pentanol, (syn. normal), dms., c.l., works lb. .42 - —
l.c.l., works lb. .43½- —
tanks, works lb. .40 - —
2-pentanol, dms., c.l., works lb. .65 - —
l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms., dlvd lb. .47½- .49
n-Butyl, ferment., dms., l.c., frt. alld lb. .15 - —
l.c.l., frt. alld lb. .16 - —
tanks, frt. alld lb. .13 - —
n-synthetic, dms., c.l., dlvd. lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .13 - —
sec-synthetic, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11 - —
tert-synthetic, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld lb. .15 - —
tanks, works lb. .12 - —
Capryl, 85%, dms., c.l., works lb. .18 - —
l.c.l. works lb. .18½- —
tanks, works lb. .16½- —
95%, dms., c.l., works lb. .19½- —
l.c.l., works lb. .20 - —
tanks, works lb. .18 - —
Cetyl, extra, dms., cns., 500-lb. lots or more lb. .73 - —
smaller lots lb. .80 - 1.15
NF, dms., cns., 140-lb. lots or more lb. .58 - .82
smaller lots lb. .59 - .82
Cinnamic, bots lb. 2.15 - 2.75
Decyl, bots lb. 1.75 - 2.00
indust. (see 1-Decanol).
Denat., CD12, CD13, CD14, CD17, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis, gal. .59½- .65¼
tanks, dlvd., same basis gal. .41½- —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
SD1, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66¼
tanks, same basis gal. .42½- —
SD2B, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD23A, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66¼
tanks, same basis gal. .42½- —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis gal. .59½- .65¼
tanks, same basis gal. .41½- —
SD30, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD35A, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD40, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
Diacetone, acetone-free, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13½- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .11½- —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies. gal. 20.48 - —
l.c.l., same basis gal. 20.53 -20.59
tanks, same basis gal. 20.35 - —
tax free, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies. gal. 21.58 - —
l.c.l., same basis gal. 21.63 -21.69
tanks, same basis gal. 21.45 - —


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Alcohol, 2-ethylbutyl, dms., c.l., works lb. .29½ - —
l.c.l., works lb. .30 - —
tanks, works lb. .28 - —
2-Ethylhexyl, dms., c.l., dlvd. E lb. .23¾ - —
l.c.l., same basis lb. .24¼ - —
tanks, same basis lb. .21¼ - —
Furfuryl, cns., works lb. .29 - —
dms., c.l., Cedar Rapids, Ia. lb. .21 - —
Newark, N. J. lb. .21½ - —
l.c.l., Cedar Rapids, Ia. lb. .22 - —
Newark, N. J. lb. .22½ - —
tanks, Memphis, Tenn. lb. .184 - —
Isoamyl (see Alcohol, amyl, fermentation, refined).
Isobutyl, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd. lb. .15 - —
tanks, dlvd. lb. .12 - —
Iso-octyl, dms., c.l., dlvd. E. lb. .23 - —
l.c.l., dlvd. E. lb. .24 - —
tanks, dlvd. E. lb. .21 - —
Isopropyl, refd., 91%, dms., c.l., dlvd. gal. .48 - —
l.c.l., dlvd. gal. .55 - —
tanks, dlvd. gal. .35 - —
95% dms., c.l., dlvd. gal. .50 - —
l.c.l., dlvd. gal. .57 - —
tanks, dlvd. gal. .37 - —
99% dms., c.l., dlvd. gal. .52 - —
l.c.l., dlvd. gal. .59 - —
tanks, dlvd. gal. .39 - —
Lauryl, bots. lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Carbinol, methylisobutyl).
Octyl, perfumer's grade, bots. lb. 1.75 - 3.25
tech. (see Octanol, normal).
2-Phenylethyl, extra, dms. lb. 1.14 - 1.45
standard, dms. lb. 1.26 - 1.35
n-Propyl, dms., c.l., dlvd. lb. .12 - —
l.c.l., dlvd lb. .13 - —
tanks, dlvd lb. .10 - —
Tetrahydrofurfuryl, cns., Cedar Rapids, Iowa lb. .54 - —
dms., c.l., Niagara Falls, N. Y. lb. .44½ - —
l.c.l., Newark, N. J., Cedar Rapids, Ia. lb. .47 - —
tanks, Niagara Falls, N. Y. lb. .43 - —
indust. grade, dms., c.l., Niagara Falls, N. Y. lb. .303 - —
l.c.l., Newark, N. J., Cedar Rapids, Ia lb. .33 - —
tanks, Niagara Falls, N. Y. lb. .29 - —
Wood (see Methanol).
Aldol, 95%, dms., works lb. .23 - —
denaturing grade, dms. gal. 2.15 - —
Aldrin, 60% soln., dms., c.l., works, frt. alld. lb. .538 - —
l.c.l., works, frt. alld. lb. .588 - —
Aletris root, bgs. lb. 1.75 - 1.85
Algin (see Sodium alginate).
Allethrin, 100%, dms., frt. alld. lb. 32.00 - —
90%, dms., frt. alld. lb. 28.50 - —
soln., 20%, dms., 100-lb. lots, frt. alld. lb. 6.50 - —
2½%, dms., frt. alld. lb. .90 - 1.25
Allspice (see Pimento).
Allyl bromide, cbys., works lb. 1.35 - 1.40
Chloride, dms., c.l., dlvd. lb. .17 - —
l.c.l., dlvd lb. .18 - —
tanks, dlvd lb. .15 - —
Starch, solid, dms., works lb. .52¾ - .54¾
solution, 40%, toluol-butanol, dms., works lb. .25½ - .26¼
Aloe, Cape, cs. .36 - —
powd., cs. lb. .50 - —
Curacao, kgs. lb. .50 - .55
Socotrine, kgs. lb. No prices
Aloin, USP, bbls., dms., kgs. lb. 3.75 - 3.82
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
lump, dms., works 100 lbs. 5.05 - —
powd., dms., works 100 lbs. 5.20 - —
USP, burnt, dms. lb. .20 - .21
hydrous, dms. lb. .07¾ - .08
Potassium, gran., bgs., works. 100 lbs. 4.55 - —
lump, dms., works 100 lbs. 5.30 - —
powd., dms., works 100 lbs. 5.45 - —
USP, burnt, dms. lb. .20 - .21
hydrous, dms. lb. .07¾ - .08
Potash-chrome, dms. lb. .17 - —
Sodium, dms., c.l., works 100 lbs. 4.60 - —
l.c.l. works 100 lbs. 5.00 - —
Alumina, calcined, bgs., c.l., works. lb. .0385 - —
l.c.l., works lb. .0410 - .0510
Aluminum acetate, basic soln., 24%, bbls., l.c.l., works lb. .14 - —
Chloride, coml., anhyd., dms., c.l., works, frt. equald lb. .15 - —
l.c.l., works, frt. equald. lb. .1550 - —
cryst., dms., c.l., works lb. .1030 - —
l.c.l., works lb. .1070 - —
soln., 32°, cbys., c.l., works lb. .0369 - —
l.c.l., works lb. .0435 - .0960
tanks, works 100 lbs. 2.80 - —
NF, gran., dms., works lb. .29 - .31
Fluoride, tech., anhyd., bgs., c.l., works lb. 15.75 - —
l.c.l., works lb. 16.75 - 18.75
Aluminum fluoride in fib. dms. 0.35c. per lb. higher.
Formate, basic soln., cbys. lb. .09½ - —
l.c.l., works lb. .10 - —
Hydrate, heavy bgs., c.l., frt. equald. ton 60.00 - —
l.c.l., works ton 65.00 - 85.00
light bgs. dlvd lb. .17 - —
Hydroxide, gel, pharmaceutical, 14-15% $Al_2O_3$, fib dms., works lb. .22 - —
contract, works lb. .21 - —
9-9½% $Al_2O_3$, fib. dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib., dms., works lb. .82½ - —
contract, works lb. 79½ - —
tech., powder (see Aluminum hydrate).
Metal, 99% +, ingots, 10,000-lb. lots, frt. alld. lb. .222 - —
pigs, 10,000-lb. lots, frt. alld. lb. .205 - —
Oxide, amorphous (see Alumina, calcined).
Paste, lining, extra-fine, dms. lb. .63½ - —
standard, dms. lb. .43 - —
Powder, lining, extra fine, dms lb. 1.02½ - —
standard, dms. lb. .72 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c per lb for 100-lb. dm., 1½c per lb for 50-lb dm., 3c. per lb. for 10-lb can and 5c. to 12c per lb for smaller containers. Deduct 1c. per lb for single shipment of 400 to 1,499 lbs. 2c. for 1,500 to 4,999 lbs. 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs or over.

Resinate, precip., 2.1% Al, dms., frt. alld. lb. .30 - —
Stearate, dibasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
monobasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
tribasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
Sulfate, coml., bulk, c.l., works. 100 lbs. 1.85 - —
grd., c.l., bgs., works ton 37.00 - —
lump, c.l., bgs., works ton 40.00 - —

Aluminum sulfate, iron-free, bgs., c.l., works, frt. equald. 100 lbs. 3.55 - —
l.c.l., works, frt. equald 100 lbs. 3.95 - —
USP, gran., dms., works lb. .16 - .18
powd., dms., works lb. .22 - .24
Trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots. oz. 8.00 - 10.00
Aminoazotoluene, base, bbls., 100% basis lb. 1.03 - 1.18
o-Aminobiphenyl, dms., c.l., works. lb. .32½ - —
l.c.l., works lb. .33 - —
tanks, works lb. .31 - —
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .46½ - —
l.c.l., dlvd. lb. .45 - —
tanks, dlvd lb. .45 - —
2-Amino-2-methyl-1-propanol, cns., dms., works lb. .60 - —
m-Aminophenol, dist., dms., ton lots. lb. 2.05 - —
smaller lots lb. 2.50 - —
p-Aminophenol, dms., frt. alld. lb. .97 - .98
Aminophylline, USP, 100-lb. dms. lb. 3.55 - —
Aminopyrine, USP, bots., dms. lb. 4.75 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald. ton 85.00 - 88.00
pure cyls., extra, sane 1 lb. .18½ - —
2 lb. .19 - —
3 lb. .19½ - .20
4 lb. .20 - —
5 lb. .21 - —
refrigeration tanks, works, frt. equald. ton 87.50 - 90.50
Aqueous (29.4% $NH_3$), dms., c.l., dlvd. Metropolitan area. 100 lbs. 3.60 - —
l.c.l., works 100 lbs. 4.00 - —
tanks, works, anhyd. basis. ton 96.00 - —
Ammoniac, sal, gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
l.c.l., same basis 100 lbs. 8.65 - 11.15
white, gran. (see Ammonium chloride, tech.)
Ammoniacal liquor, tanks, works, anhyd basis ton 96.00 - —
Ammonium acetate, purif., dms lb. .38 - —
Benzoate, USP, dms., kgs., 4,000-lb. lots, frt. alld. lb. .80 - —
smaller lots, frt. alld. lb. .81 - 1.08
Biborate, gran., dms., c.l., works. ton 317.00 - —
ton lots, ex whse ton 390.50 - —
smaller lots, ex whse ton 395.50 - —
Bicarbonate, dom., dms., c.l., works 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 7.50 - —
imp., dms., l.c.l. lb. .07¼ - .08½
Bichromate, dms., works lb. .42 - .43
Bifluoride, dms., dlvd lb. .2145 - .2245
Bromide, NF, gran., bbls lb. .38 - .39
dms. lb. .39 - .42
Powdered ammonium bromide 10c. per lb. higher.
Carbonate, USP, lump, powd., dms lb. .23 - .24
Chloride, tech., white, gran., bgs., c.l., works 100 lbs. 5.25 - —
l.c.l., works 100 lbs. 7.00 - —
USP, gran., bbls., dms. lb. .17¼ - —
Citrate, dibasic, bbls lb. .75 - —
dms. lb. .80 - .85
Dichromate (see Ammonium bichromate).
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia, aqueous).
Hypophosphite, NF, dms lb. 3.07 - —
Iodine, NF, dms., bots. lb. 4.26 - 4.38
Linoleate, 80%, dms., works lb. .50 - .55
Nitrate, fertilizer grade, dom., 33.5% N., bgs., western, works, frt. equald ton 68.00 - 70.00
with dolomite, 20.5%N, bgs., Hopewell, Va. ton 51.00 - —
Ammonium nitrate, imp., Canadian, 33.5% N, eastern, bgs., c.l., ship't point, frt. equal to $6 per ton. 74.50 - —
western, bgs., c.l., f.o.b. cars, Los Angeles ton 89.84 - —
Oxalate, fine gran., dms lb. .26½ - .31
Pentaborate, gran., dms., c.l., works ton 227.00 - —
ton lots, ex whse ton 300.50 - —
smaller lots, ex whse ton 305.50 - —
Ammonium pentaborate powder, $10 per ton higher
Perchlorate, kgs., works lb. .50 - .75
Persulfate, kgs lb. .38 - —
Phosphate, coml., bgs., c.l., works, frt. equald lb. .0865 - —
l.c.l., same basis lb .09 - —
dibasic, NF V bois. dms lb. 45 - —
tech., bgs. c.l works. frt. equald lb. .0865 - —
l.c.l., same basis lb. .0915 - —
Salicylate, NF, dms., kgs lb. 1.62 - 1.64
Silicofluoride dms. works lb. .11 - .12
Sulfamate, bbls., dms., works lb. .18 - .20
Sulfate, coke-oven, bulk, producing ovens ton 42.00 - 47.50
syn., bgs., c.l., western, works. ton 47.00 - —
bulk, works ton 42.00 - —
purif., dms., works lb. .08½ - .10
Sulfide, liq., 40-44%, dms., c.l., frt. equald., 100% basis. ton 240.00 - —
l.c.l., works, 100% basis. ton 300.00 - —
tanks, frt. alld., 100% basis. ton 180.00 - —


# Does your product call for *Highest Color Stability* in hard fatty acids?

## SPECIFY HYSTRENE*

If you are looking for *the finest* in hard saturated fatty acids —a high-quality foundation for your own highest quality products—then the Hystrene acids are for you.

What makes the Hystrene acids different is their exceptional color stability at high temperature. This is made possible by a patented process for removal of unsaponifiables and unsaturates. Your laboratory will find that Hystrenes give you an entirely new basis on which to build product improvements.

The specifications below will show the high purity of Hystrenes at a glance, and the narrow limits within which our manufacturing process is controlled.

But the final answer will be your own laboratory evaluation. Ask us for samples, and see for yourself what Hystrenes can do for your product.

*Registered trademark Trendex Div., The HumKo Company.

**HYSTRENE SPECIFICATIONS**

| | HYSTRENE T-70 Hydrogenated Tallow Fatty Acid | HYSTRENE S-97 Hydrogenated Soya Fatty Acid | HYSTRENE T-45 Pressed Ratio Fatty Acid |
|---|---|---|---|
| Titer (°C) | 61.5—62.5 | 65.5—66.5 | 55.0—56.0 |
| Iodine Value (Wijs) | 0.5 max. | 0.8 max. | 0.5 max. |
| Unsaponifiables (%) | 0.15 max. | 0.25 max. | 0.15 max. |
| Color (Lovibond, 5¼" Cell) | 2Y—0.4R max. | 3Y—0.7R max. | 2Y—0.4R max. |
| Free Fatty Acid (as stearic) | 100.5—102.5 | 100—101 | 104—106 |
| Acid No. | 198—202 | 197—199 | 205—209 |
| Saponification No. | 199—203 | 198—201 | 206—210 |

CHEMICALS DEPARTMENT
ATLAS POWDER COMPANY
WILMINGTON 99, DELAWARE
*offices in principal cities*
ATLAS POWDER COMPANY, CANADA, LTD.
BRANTFORD, CANADA

## Ammonium Sulfocyanide—Bismuth Metal

Ammonium sulfocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .20 - —
l.c.l., works lb. .22 - .28
Thioglycollate, coml., cbys., 100% basis lb. 1.60 - —
highly purif., cbys., 100% basis, lb. 1.70 - 1.96
Thiosulfate, cryst., photo grade, fib dms., frt alld lb .65 —
60% soln., dms., c.l., works lb. .08½- —
d-Amphetamine hydrochloride di-basic, bots lb 28.00 - —
dl, dms lb 6.00 - —
d-monobasic, bots lb 28.00 - —
d-Phosphate, dibasic, bots lb 28.00 - —
dl, dms lb 6.00 - —
d-Sulfate, dms lb 28.00 - —
dl, dms lb 6.00 - —
Amyl acetate, ex fusel oil, tech., frt. alld E of Rockies lb. .17 - —
l.c.l. same basis lb. .18 - —
tanks, same basis lb. .15 - —
ex pentane, reg., dms., c.l., dlvd. lb. .17 - —
l.c.l. same basis lb. .18 - —
tanks, same basis lb. .15 - —
tech., dms., c.l., dlvd. lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
Alcohol (see Alcohol amyl).
n-Butyrate, dms lb. .90 - 1.25
Cinnamic aldehyde, dms lb. 1.70 - 2.00
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .74 - 1.05
o-tert-Amyl phenol, dms., c.l., works. lb. .43¾- —
l.c.l., works lb. .46¾- —
tanks, works lb. .41¾- —
p-tert-Amyl phenol, dms., c.l., works. lb. .24¾- —
l.c.l., works lb. .25¾- —
tanks, works lb. .23¾- —
Anethole, NF, cns., dms lb. 1.25 - 1.55
tech., dms lb. .75 - 1.20
Angelica root, dom., bls lb. .60 - .70
Aniline oil, dms., c.l., works, frt. alld. lb. .21 - —
l.c.l., works, frt. alld lb. .22 - —
tanks, works, frt. alld lb. .20 - —
Salt, dms., frt. alld lb. .33 - —
c.l., truckloads, 20,000 lbs. min. lb. .31 - —
Anise, Mexican, bgs. lb. .24 - —
Spanish, bgs. lb. .33 - .36
Syrian, bgs. lb. .24 - —
Anisic aldehyde, bots., dms lb. 1.80 - 2.70
o-Anisidine, dms., works lb. .88 - —
p-Anisidine, dms., works lb. .97 - —
Annatto seed whole, bgs. lb. .24 - —
powd., dms. lb. .28 - —
Anthracene, 90-95%, bbls., ton-lots, works lb. .70 - —
smaller lots, works lb. .95 - —
Anthraquinone, 99.5%, bbls., frt. alld lb. .88 - —
Antimony butter (see Antimony trichloride)
Metal, bulk, c.l., mines lb. .28½- —
cs., c.l., mines lb. .29 - —
Oxide, bgs., c.l., frt. alld lb. .29 - —
l.c.l., frt. alld lb. .30½- —
Sulfide, approx. 60%, bgs., dlvd. lb. .27 - .30
Trichloride, anhyd., pails, c.l., works lb. .38½- —
l.c.l., works lb. .40½- —
Antimony potassium tartrate, tech., gran. or powd., dms lb. .56 - .59
USP, powd., dms lb. .61 - .62
Antipyrine, NF, dms lb. 2.50 - 2.70
Apomorphine hydrochloride, USP, bots oz. 23.40 -23.90
Areca nuts, powd., bbls lb. .15 - .16
Arecoline hydrobromide, NF, bots. tins oz. 4.50 - 6.00
l-Arginine monohydrochloride, dms., 1-kilo lots kilo. 74.80 -83.00
Argols, min. 50%, bgs., shipt. ports per 100 kilos, 100% basis 24.50 - —
Arnica flowers (true montana), bls. lb. 2.50 Nom.
Arsenic metal, lump, bbls., prompt ship't lb. .60 - —
Trioxide, USP, dms lb. .48 - —
White, powd., bbls., c.l., dvld lb. .05½- —
l.c.l., dlvd lb. .06½- .07½
Asafetida, cs. lb. .36 - .39
powd., bbls., dms lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton. 1,300.00- —
No. 2, c.l. (20 tons), mines ton. 675.00 - —
Run-of-mine, c.l., (20 tons), mines ton. 556.00 - —
3K, c.l. (20 tons), mines ton. 436.00 - —
3R, c.l. (20 tons), mines ton. 371.00 - —
3T, c.l. (20 tons), mines ton. 348.00 - —
3Z, c.l. (20 tons), mines ton. 321.00 - —
4K, c.l. (20 tons), mines ton. 173.00 - —
4M, c.l. (20 tons), mines ton. 173.00 - —
4T, c.l. (20 tons), mines ton. 156.00 - —
4Z, c.l. (20 tons), mines ton. 156.00 - —
5D, c.l. (20 tons), mines ton. 122.50 - —
5K, c.l. (20 tons), mines ton. 122.50 - —
5M, c.l. (20 tons), mines ton. 116.50 - —
5R, c.l. (20 tons), mines ton. 110.00 - —
6D, c.l. (30 tons), mines ton. 78.00 - —
7D, c.l. (30 tons), mines ton. 68.50 - —
Asbestos, Canadian, crude, 7F, c.l. (30 tons), mines ton. 65.00 - —
7H, c.l. (30 tons), mines ton. 55.00 - —
7K, c.l. (30 tons), mines ton. 46.00 - —
7M, c.l. (30 tons), mines ton. 40.00 - —
7R, c.l. (30 tons), mines ton. 39.00 - —
7T, c.l. (30 tons), mines ton. 37.00 - —
7RF, c.l. (30 tons), mines ton. 40.00 - —
7TF, c.l. (30 tons), mines ton. 40.00 - —
8S, c.l., (30 tons), mines ton. 27.00 - —
Asbestos c.l. prices are in U. S. funds, l.c.l., lots, $4 per ton higher.
Asphalt, gilsonite, black, jet, bgs., c.l., mines ton. 37.00 - —
select, 350°F., fusing pt., bgs., c.l., mines ton. 38.00 - —
270°-295°F., fusing pt., bgs., c.l., mines ton. 37.00 - —
seconds, 300° 390°F fusing pt., bgs., c.l., mines ton. 32.00 - —
Manjak, No. 10, crude, dms., works lb. .06¼- —
Petroleum, cut-back, tanks, tank-wagon, refy gal. .09 - —
emulsion, tanks, tankwagon, refy gal. .09½- .10
steam-refd., less than 80 penetration tanks, tankwagon refy ton. 21.00 - —
80-300 penetration, tanks, tank-wagon, refy ton. 20.00 - —
Aspirin (see Acid, acetylsalicylic).
Atropine, USP, bots oz. 7.00 - —
Sulfate, USP, bots oz. 4.00 - —

## B

Bacitracin, bulk, 1,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb. 1.35 1.45
Barberry root, bark, bags lb. .28 .30
Barbital, USP, 100-lb. dms lb 4.50 —
Sodium, USP, dms lb. 4.75 4.77
Barium carbonate, precip., bgs., c.l., works ton 92.50 —
smaller lots works ton 102.50 —
Chlorate kgs., works lb 32 .36
Chloride, anhyd., bgs., c.l., works. ton. 158.00 - —
l.c.l. works ton 168.00 —
cryst., tech., dms., c.l., works 100 lbs. 6.00 - —
l.c.l., works 100 lbs. 6.50 - —
NF, cryst., dms lb. .18 - —
Chromate, bgs., frt. equald lb. .35 - —
Dioxide (see Barium peroxide).
Hydrate, cryst., bgs ton. 180.00 -190.00
Monoxide (see Oxide).
Nitrate, bbls., c.l., works lb. .12½- —
l.c.l., works lb. .14 - —
Oxide, grd., dms., c.l., frt. equald. ton. 255.00 - —
l.c.l., works ton. 265.00 - —
Peroxide, dms., works lb. .16 - —
Stearate, ctns., c.l., frt. alld lb. .37 - —
l.c.l., same basis lb. .38 - .42
Sulfate, tech. (see Barytes and Blanc fixe).
X-ray, dms lb .14 - .14½
Sulfide, dms., c.l., works ton. 85.00 - —
l.c.l., works ton. 95.00 - —
Barytes, Southern off-color, bgs., mines ton. 25.00 - —
95.75%, bgs., mines ton. 25.00 - —
water-grd., paper bgs., c.l., E. St. Louis ton. 41.60 - —
ex-whse., N. Y. ton. 60.10 - —
Bauxite, bulk, mines ton. 9.50 -10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. .35 - .37
root, bls lb. .45 - .50
Bentonite, dom., 200 mesh bgs., c.l., mines ton. 14.00 - —
imp., Italian, white, high gel., bgs., 5-ton lots, ex whse ton. 80.60 - —
1 ton-lots, ex whse ton. 83.10 - —
low gel, bgs., 5 ton-lots, ex whse ton. 78.95 - —
1 ton-lots, ex whse ton. 81.45 - —
Benzal chloride, cbys., works lb. .22 - .23½
Benzaldenyde, NF, dms lb. .74 1.05
tech., cbys., dms lb. .44 - —
Benzene (see Benzol).
Hexachloride, 25% and 99% gamma isomer (see Lindane).
tech., bgs., dms., c.l., works, gamma unit-lb. .0075- .009
l.c.l., works, gamma unit-lb. .015 - —
wet dust, distributors, dms., c.l., dlvd., gamma unit-lb. .02 - —
l.c.l., dlvd., gamma unit-lb. .021 - —
Benzidine hydrochloride, bbls., frt. alld., 100% basis lb. 1.00 - —
Benzocaine, dms lb. 3.48 3.50
Benzol, pure or nitration, tanks, works
Bethlehem, Pa gal. .40 - —
Birmingham district gal. .40 - —
Chicago district gal. .40 - —
Cleveland district gal. .40 - —
Geneva, Utah gal. .40 - —
Johnstown, Pa gal. .40 - —
Lackawanna, N. Y. gal. .40 - —
Lone star, Texas gal. .40 - —
Lorain, Ohio gal. .40 - —
Minnequa, Colo gal. .39 - —
Philadelphia district gal. .40 - —
Pittsburgh district gal. .40 - —
Sparrows Point, Md. gal. .40 - —
Syracuse, N. Y. gal. .40 - —
Terre Haute, Ind. gal. .40 - —
Youngstown, Ohio gal. .40 - —
Benzophenone dms lb. 1.40 - 1.70
Benzonitrile, dms., c.l., works lb. .46¾- —
l.c.l., works lb. .47 - —
Benzotrichloride, cbys., frt. equald. lb. .18 - .20
Benzoyl chloride, cbys., dms., c.l., works, frt. equald. lb. .22 - —
l.c.l., same basis lb. .23 - —
tank trucks, dlvd. Metropolitan area lb. .20 - —
Peroxide, purif., fib. dms., 50-1,000-lb. lots, works lb. .98 - 1.08
Benzyl acetate, f.f.c., cns., dms lb. .62 - 1.04
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms. lb. .62 - 1.10
Chloride, tech., cbys., dms., c.l., works, frt. equald. lb. .20½- .23½
l.c.l., same basis lb. .21½- .24½
High grade benzyl chloride, 2c. higher.
Cinnamate, cns. lb. 3.35 - 3.90
Formate, cns. lb 1.30 - 2.10
Isoeugenol, cns. lb. 8.60 - 9.10
Propionate, bots. lb. 1.35 - 1.65
Salicylate, bots. lb. 1.50 - 1.85
Benzylidine acetone, bots lb. 1.68 - 1.80
Chloride (see Benzal chloride).
Berberine bisulfate, cns. lb. 35.00 -36.25
Hydrochloride, bots lb. 35.00 -36.25
Betagammapicoline (see b.g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene)
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine).
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, technical).
Biotin cryst., bots gram. 10.00 - —
Biphenyl (see Diphenyl).
Bismuth chloride, jars lb. 5.11 - —
Hydroxide, dms. lb. 4.65 - —
Metal, bxs., ton lots lb. 2.25 - —

ALCAN CHEMICALS FOR INDUSTRY

Alumina, Activated
Alumina, Calcined
Alumina Hydrate
Aluminum Chloride, Anhydrous
Aluminum Fluoride
Aluminum Sulphate
Bauxite
Chlorine, Liquid
Cryolite, Artificial
Fluorspar
Lime
Magnesia
Magnesium Chloride, Anhydrous
Sodium Fluoride
Sulphuric Acid

# What's Alcan doing *in Chemicals?*

AS THE PRODUCER of one-fourth of the free world's aluminum, Alcan (Aluminum Company of Canada, Ltd.) is concerned with chemicals in a big way. With a large range of metallic and non-metallic products, evolving from the production of aluminum, Alcan is in a position to supply chemicals to industry for a variety of uses.

These Alcan Chemicals *have* to be good—and you can depend on it—they are. Co-operating in their production are Alcan's sister companies. Each of these affiliates specializes in its own field of endeavor:

- **Laboratory research, and the exploring and surveying of material resources throughout the free world;**
- **Mining and processing of raw materials in many different countries;**
- **Development of up-to-date shipping methods for the protection and speedy delivery of the products.**

One of Alcan's sister companies, Aluminium Limited Sales, Inc., distributes Alcan Chemicals in the United States. The office near you will be glad to help you with your special chemical requirements.

ALCAN Aluminum Chemicals

ALUMINIUM LIMITED SALES, INC.
One of the ALUMINIUM LIMITED group of Companies
Offices or Agents in 40 cities
Cable: ALIMPORT
630 Fifth Avenue, New York 20
20 North Wacker Drive, Chicago 6
422 Terminal Tower, Cleveland 13
2842 West Grand Boulevard, Detroit 2
611 Wilshire Boulevard, Los Angeles 17

Bismuth nitrate, cryst., dms ..... lb. 2.10 - 2.17
Oxide, anhyd., dms ..... lb. 4.47 - 5.05
Oxychloride, dms ..... lb. 4.37 - 4.42
Phenolsulfonate, fib. dms ..... lb. 5.22 - —
Subcarbonate, USP, dms ..... lb. 3.20 - —
Subgallate, NF, fib. dms ..... lb. 3.15 - —
Subiodide, fib. dms ..... lb. 5.37 - —
Subnitrate, NF, dms ..... lb. 2.65 - —
Subsalicylate, USP, dms ..... lb 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Black, acetylene, bgs., c.l., works lb. .17 - —
cs., l.c.l., shipt. point ..... lb. .22½ - .26
Ash (see Barium sulfide).
Bone, dms. l.c.l., frt. alld ... lb. .17 - .23¼
Pacific coast bone black prices, 2c. per lb higher
Carbon, channel, pigment, high color, beads ctns., c.l., works. lb. .72 - —
l.c.l., dlvd. or whse. lb. .78 - —
medium color, uncompressed, bgs., c.l., works lb. .12 - —
l.c.l., dlvd or whse. lb. .19 - —
rubber, beads, bulk, c.l., works lb. .07 - —
bgs., c.l., works ..... lb. .074 - —
l.c.l., works ..... lb. .1225- —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse lb. .10 - —
high abrasion, bulk, c.l., works. lb. .0750- —
bgs., c.l., works lb. .0790- —
l.c.l., dlvd. or whse lb. .122 - .123
high modulus, bgs., c.l., works. lb. .0550- —
ctns., l.c.l., whse ..... lb. .0930- —
semi-reinforcing bgs., c.l., works lb. .045 - —
bgs., cns., l.c.l., whse lb. .085 - —
Black, Charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Iron oxide, pure, bgs. c.l., works. lb. .12¾ - —
l.c.l., works ..... lb. .13 - —
Lamp, bgs., c.l., works ..... lb. .16 - .45
Mineral, bgs., works ..... lb. .0160- .0675
Blackberry root bark, bls ..... lb. .45 - —
Black haw root bark, bls ..... lb. .65 - .70
tree bark, bls ..... lb. .40 - .45
Blanc fixe, dry byproduct, bgs. c.l., works ton.190.00 - —
l.c.l., works ton.200.00 - —
direct process, bgs., c.l., works. ton.100.00 - —
l.c.l., works ..... ton.110.00 - —
N. Y. whse ..... ton.140.88 -165.00
pulp, 70%, bbls., c.l., works. ton.105.00 - —
l.c.l., works ..... ton 115.00 - —
Bleaching powder, dms., c.l., works. 100 lbs. 5.02 - —
l.c.l., works ..... 100 lbs. 6.52 - —
Blood, dried, 16-16½% ammonia, bgs. unit-ton. 8.00 - —
high-grade unground, 16-17% ammonia, bgs., Chicago. unit-ton. 8.00 - —
soluble, bgs., c.l. ..... lb. .17 - .19
l.c.l. ..... lb. .18 - .25
Bloodroot, bls ..... lb. .60 - .65
Blue alkali, dry, bbls., dlvd. N. or Tenn and N C., E. of Miss R. including St Paul Minneapolis, Davenport, Rock Island, St Louis lb 2.00 - —
toner, bbls, f.the flushed same basis lb. 1.15 - —
Chinese, bbls., same basis lb. .48 - —
Cobalt, genuine, bbls., same basis. lb. 4.90 - —
Imitation (see Blue ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda).
Methyl violet toner, molybdated, PMA, bbls., same basis lb. 2.60 - —
tungstated, PTMA, bbls., same basis lb. 3.85 - —
Milori, bbls., same basis lb. .42 - —
Peacock, fugitive, 100% color strength, bbls, same basis lb 75 - —
Phthalocyanine, full strength, bbls., same basis lb. 3.45 - —
resinated, bbls., same basis lb. 3.00 - —
water dispersable, bbls., same basis lb. 1.54 - —
Potash, CP, bbls, same basis lb. .56 - —
Prussian, insoluble, bbls., same basis lb. .42 - —
soluble, bbls., same basis lb. .48 - —
Soda, CP, bronze, bbls., same basis lb. .56 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½- .35
jobbing types, bbls., same basis. lb. .16½- .18½
reg. types, dry, bbls., same basis. lb. .22½- .35
Victoria toner, molybdated, PMA, bbls lb 4.10 - —
tungstated, PTMA, bbls ... lb. 5.00 - —
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.
Blue vitrol (see Copper sulfate).
Bluestone (see Copper sulfate).
Bonemeal, steamed, works, E. ton.65.00 - —
Los Angeles ..... ton.82.00 - —
Bone phosphate defluorinated (see D)
of lime (see Calcium phosphate, tribasic).
precipatated (see Calcium phosphate tribasic, NF, precip.).
Borax, tech., anhyd., bgs., c.l., works. ton.78.00 - —
ton lots ex whse, N. Y. or Chicago ton.125.75 - —
bulk, c.l., works ton.70.00 - —
cryst., 99%, bgs., c.l., works. ton.67.25 - —
ton lots, ex-whse., N. Y. or Chi ton.115.00 - —
smaller lots, same basis. ton.120.00 - —
gran., decahydrate, 99½%, bgs., c.l., works ton.41.25 - —
ton lots, ex whse., N. Y. Chi ton.89.00 - —
smaller lots, same basis. ton.94.00 - —
bulk, c.l., works ..... ton.35.75 - —
pentahydrate, 99½%, bgs., c.l., works ton.55.50 - —
ton lots, ex whse, N.Y., Chi ton.108.25 - —
smaller lots, same basis. ton.103.25 - —
powd., 99½%, bgs., c.l., works. ton.46.25 - —
ton lots, ex-whse., N. Y. or Chi. ton.94.00 - —
smaller lots, same basis. ton.99.00 - —
Borax packed in kgs., $45.50 per ton higher than in paper bgs.; in barrels, $24.50 higher. USP borax $15 per ton higher.
Bordeaux mixture, bgs., c.l., works, frt alld. or nearest whse. pt lb. .18 - .24
l.c.l., same basis ..... lb. .19 - .36

Borneol, cns. ..... lb. 2.50 - 4.50
Borontrifluoride gas, cyls., truckload, works lb. .62 - —
less truckload, works ..... lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulfur).
Bromine, purif., cs., c.l., dlvd. E. of Rockies lb. .27 - —
l.c.l. up to 1,000-lb lots, same basis lb. .29 - —
dms. lead-lined, dlvd lb. .34 - —
Bromoform, pharmaceutical grade. bots lb 1.62 2.60
cbys. ..... lb. 1.52 - —
Bromstyrol, bots ..... lb. 5.40 - 5.70
Bronze powder aluminum (See A).
Brown iron oxide pure bgs., c.l., works lb. .13¾ —
l.c.l., works lb 14 —
Oxide, metallic, bgs, works lb. .04 —
Sienna, burnt, paper bgs., c.l., works lb. .04¼- 15¼
l.c.l. works lb 04½ 15½
raw, paper bgs, c.l. works lb 04½ 13
l.c.l. works lb 04¾ 13¼
Umber, burnt, American, bgs., c.l. works lb. .06 —
l.c.l., works ..... lb. .06¼- .07
Turkey type bgs c.l. Boston, Bethlehem, Easton, Pa., Hiwassee, Va. N Y lb. .06¾ —
l.c.l., works ..... lb. .07 - —
raw, American bgs works lb .06¼ 06½
Turkey-type bgs. works lb. .06¾ 07
Vandyke bbls, works lb .09½ 12
Brucine, cns., 100-oz. lots ..... oz. .20 .25
Sulfate, NF, cns., 100-oz. lots oz. .15 - .20
Buchu leaves, bls ..... lb. .50 —
Butadiene, refd., cyls., refy ... lb. .22 - —
tanks, refy ..... lb. .15 - —

Butane, indust., tanks, group 3 gal. .03½- —
N. Y. harbor ..... gal. .08 - —
n-Butyl acetate, ferment., dms., c.l., frt. alld lb. .15 - —
l.c.l., same basis ..... lb. .16 - —
tanks, same basis ..... lb. .13 - —
n-synthetic, dms., c.l., dlvd. E. lb. .15 - —
l.c.l., same basis ..... lb. .16 - —
tanks, same basis ..... lb. .13 - —
sec-synthetic, dms., c.l., dlvd. E. lb. .12½- —
l.c.l., same basis ..... lb. .13¼- —
tanks, same basis ..... lb. .10¾- —
Alcohol (see Alcohol n-Butyl).
Aldehyde (see Butyraldehyde).
Chloride, dms., c.l., works ..... lb. .37½- —
c.l. works lb .38 —
n-Ether, dms., c.l., works ..... lb. .31½- —
l.c.l., works ..... lb. .32 - —
tanks, works ..... lb. .30 - —
Lactate dms., c.l., frt. alld. E. of Rockies lb. .35 - —
l.c.l., same basis ..... lb. .36 - —
tanks same basis ..... lb .33 - —
Laurate, dms., works ..... lb. .39 - —
Methacrylate normal, dms. less truckloads works lb .70 —
Oleate, refd., dms., l.c.l., works. lb. .32 - —
Phenylacetate dms fb 4.50 4.60
Phthalate (see Dibutyl phthalate).
Stearate dms, l.c.l., frt equald lb. .24 - .27
Butylamine (see mono-di-, and tri-).
6-tert-Butyl-m-cresol, dms., c.l., works lb. .49 - —
l.c.l., works ..... lb. .50 - —
tanks, works ..... lb. .48 - —
p-tert-Butylphenol, bgs., c.l., works. lb. .25½- —
l.c.l., works ..... lb. .26½- —

Butyraldehyde, dms., c.l., dlvd lb. .21½- —
l.c.l. dlvd ..... lb. .22½- —
tanks, dlvd ..... lb. .19½- —
Butyric ether (see Ethyl butyrate).

## C

Cacao butter (see Cocoa butter).
Cadmium iodide, 25-lb. fib. dms lb. 6.75 7.05
Metal ingots or sticks, cs. dlvd lb. 1.70 - —
Caffeine, nat., USP, cryst., dms., 100-lb. lots or more lb. 3.15 - —
anhyd., dms. ..... lb. 3.35 - —
syn., anhyd., dms., 100-lb. lots or more lb. 3.35 - —
hydrous, dms., 100 lbs. or more lb. 3.15 - —
citrated, USP, dms., 100-lb. lots or more lb. 2.90 - —
Calamine, USP dms lb. .34 —
Calciferol, cryst., vials, 1-kilo lots, works gram. .75 - —
25 to 100 gram lots, works. gram. .80 .90
in edible oil (see Viosterol).
Calcium p-aminosalicylate, fib., dms., 1,000 lb. lots, frt. adjusted lb. 7.00 - —
smaller lots, same basis lb. 7.05 7.50
Arsenate, dealers, dms., c.l., whse works, frt. alld on 96 lbs or over lb. .09 .10
l.c.l., same basis ..... lb. .10 —
Bromide, NF, jars ..... lb. .90 - .97
Carbide, standard generator size, dms., c.l., dlvd ton.134.40 —

Grace Chemical's $20,000,000 urea and anhydrous ammonia plant near Memphis, Tenn., is progressing rapidly toward completion. Indications are that production will be available to the industrial and agricultural communities by the end of 1954. That means that NOW is not too early for users of urea and ammonia to explore this source of supply.

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## Calcium Carbonate—4-Chloro-2-Aminotoluene

Calcium carbonate, nat., dry-grd., air floated, 99.5%—325 mesh, bgs., c.l., works ton 7.50 - 10.00
chalk, whiting, 325 mesh, bgs., works ton 32.00 -34.00
water-grd., ½ to 0 microns, ogs., c.l., works ton 30.00 - —
10 to 20 microns, bgs., c.l., works ton 17.00 -18.00
precip., dense, bgs., c.l., works, ton 30.00 -33.00
l.c.l., works ton 40.00 -48.00
medium, bgs., c.l., works ton 35.00 —
l.c.l., works ton 45.00 -50.00
surface treated, bgs., c.l., works ton 35.00 50.00
l.c.l., works ton 45.00 -65.00
ultrafine, bgs., c.l., works, ton 110.00 160.00
l.c.l., works ton 120.00 175.00
Chloride, cryst., purif., dms lb. .27 - —
flake, 77-80%, paper bgs., c.l., works, frt equald ton 27.00 - —
liquor, 40%, tanks, frt. equald, ton 11.35 - —
pellets, bgs., c.l., works ton 33.00 - —
powd., bgs., c.l., works ton 37.65 - —
solid, 73-75% dms c.l., frt equald ton 25.50 - —
l.c.l., works, same basis ton 34.00 -71.00
USP, gran., dms lb. .40 —
Chromate bgs frt equald lb 29½ .30
Cyanide, dms., dlvd. E. of Rockies, lb. .24 - .50
Gluconate, AA bbls. dms lb. .70 .72
USP, bbls., dms lb. .53 .65
Glycerophosphate, NF, fib. dms, lb. 2.30 - 2.45
Calcium hydride, dms., works lb. 2.15 - 3.00
Hypochlorite, high test, cased (45 lbs.), dlvd. E. of Rockies cs. 22.60 -24.75
dms., 100-lb., same basis dm. 28.65 -32.50
Hypophosphite, dms., ton lots or less lb. .90 - .93
Iodide, jars lb. 4.52 - —
Lactate, USP, dms., 10,000-lb. lots or more, works lb. .40 - —
smaller lots, works lb. .41 - .48
Mandelate, USP, dms., works lb. 2.10 - 2.25
Naphthenate, liq., 4%, Ca, dms., frt. equald lb. .27¼- —
Nitrate, fertilizer grade, bgs., c.l., Los Angeles ton 48.00 - —
tech., dms., works lb. .13 - —
d-Pantothenate, jars, 100-gram lots or more, frt. adjusted, gram .07½- —
Para-aminosalicylate (see Calcium p-Aminosalicylate).
Phenolsulfonate, dms lb. .70 - —
Phosphate, dibasic, USP, bgs., c.l., 100 lbs. 7.10 - —
l.c.l. 100 lbs 7.60 7.95
feed grade, 18½ to 21 units, bgs., c.l., works ton 74.00 -84.00
l.c.l., bgs., works ton 85.00 -95.00
monobasic, bgs., 10,000-lb. lots, works, frt. equald 100 lbs. 6.05 - —
smaller lots, same basis, 100 lbs. 6.55 - —
tribasic, precip., NF, bgs., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 7.95 - —
Phytate, bgs., works lb. .37 - —
Resinate, precip., dms., frt. alld., works lb. .30 - —
Calcium silicate, hydrated, bgs., c.l., works lb .06 - —
l.c.l., works lb. .06½- —
paint grade, fine, bgs., c.l., works ton 39.50 - —
l.c.l., ex whse ton 56.00 - —
medium, bgs., c.l., works, ton 27.00 - —
l.c.l., ex whse ton 44.00 - —
Stearate, ctns., c.l. lb. .35 - —
l.c.l. lb. .36 - .40
Sulfate (see Gypsum).
Calomel, USP, powd., dms lb. 5.42 - —
Camphene 46° m.p., dms., incl., c.l., works lb. .10½- —
l.c.l., same basis lb. .12 - .20
tanks, same basis lb. .08 - —
Chlorinated, 67-69% (see Toxaphene).
Camphor monobromated, NF, dms., kgs lb. 3.00 - 3.12
nat., USP, powd., cs., 100-lb. lots, lb. .60 - .65
tablets, 1-oz., ½-oz. cs lb. .75 - .80
syn., tech., 1 bbl. or more lb. .49 - —
USP, gran., powd., bbls, 2,000-lb. lots lb. .54 - —
1,000-lb. lots lb. .55 - —
smaller lots lb. .56 - —
tablets, tins, 2,000-lb. lots lb. .85 - —
1,000-lb. lots lb. .86 - —
smaller lots lb. .87 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb. 2.00 - 2.05
powd., bxs. lb. 2.25 - 2.30
Russian, bgs. lb 4.00 - 4.05
powd. bxs. lb. 4.35 - 4.40
Capsicum (see Pepper, red).
Oleoresin, NF, from domestic pepper, dms. lb. 4.50 - 5.25
from African pepper, dms. lb. 4.35 - 5.00
Caraway seed, Dutch, bgs. lb. .18½- .19

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MUTUAL CHEMICAL CO. OF AMERICA — MUTUAL — SINCE 1845


Carbazole, 97%, bbls., ton lots, works lb. 1.05 - —
Carbinol, methyl isobutyl (see Methyl isobutyl carbinol).
Carbon dioxide, indust., wholesale, bulk, dlvd. metropolitan area, ton 73.00 -115.00
cyls., same basis lb. .08 - —
solid, same basis lb. .035 - .040
Disulfide, 55-gal. dms., c.l., works, frt. alld. to competitive points lb. .0750- —
l.c.l., same basis lb. .0850- —
5-gal. dms., c.l., same basis lb. .1025- —
l.c.l., same basis lb. .1125- —
tanks, same basis lb. .0515- .0525
Tetrachloride, CP, dms., frt. alld. lb. .10½- .12¼
tech., consumers, dms., c.l., E. Rockies, frt. alld lb. .10 - —
W. of Rockies, f.o.b., stock-points lb. .10½- —
l.c.l., E. of Rockies, frt. alld. alld lb. .11¼- —
W. of Rockies, f.o.b. stock-points lb. .12¼- —
tanks, E. of Rockies, frt. alld. lb. .085 - —
W. of Rockies, f.o.b. stockpoints lb. .09 - —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb 4.00 - 4.25
smaller lots, works lb 4.10 - 4.75
Cardamom fruit, selected, bleached, A, cs lb. 3.85 - —
medium, cs. lb. 3.85 - —
decorticated, Alleppey, cs lb. 1.85 - —
Guatemalan, cs. lb. 1.75 - —
green, Alleppey, bgs lb. 1.85 - —
Ceylon, bgs lb. 1.85 - —
seed (see Cardamom fruit decorticated).
Carmine, No. 40, NF, bulk, 100-lb. lots or more, dlvd lb. 7.80 - —
smaller lots, dlvd. lb. 7.95 - 8.45
Carotene, tech., 1,350,000 A units per gram, tins, works gram. .55 - —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works, million units. .18 - —
microcrystalline in oil, 400,000 A units per gram, tins, works million units. .33 - —
Carvol, bots. lb. 4.75 - 9.65
Cascara sagrada bark, bulk lb .30 - .31
Casein, dom., acid precip., standard, bgs., 10,000-lb. lots or more, shipt. point lb. .27 - .30
premium, bgs., 10,000-lb. lots or more, shipt. point lb. .35 - .40
imp., Argentine, acid-precip., grd., 100-lb. lots or more, duty paid lb. .21 - .22
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J lb. .22 - —
ton lots, same basis lb. .23 - —
dm. lots, same basis lb. .25 - —
Cassia, Batavia, cuttings, bls lb. .16½- —
longstick, cracked, bls lb. .19 - —
shortstick, cracked, bls lb. .18 - —
Saigon, broken, bls. lb. Nominal
medium, reconditioned, bls lb. .95 - —
thin, bls lb. 1.00 - —
Castor beans, bgs., f.o.b. Brazilian ports long ton 100.00 - —
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton 30.00 Nom.
Castoreum, nat., cns lb. 5.00 -30.00
syn., cns lb. 9.00 - —
Catechol, CP, cryst., fib. dms., works lb 2.17½- —
resub., dms., works lb. 4.29½- —
Catnip leaves, Southern, bls lb. .75 - —
Celery seed, French, bgs., shipt lb. .50 - —
Indian, bgs lb. .13½- .14
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, powd., ctns., bgs., 100-lb. lots or more, dlvd. E lb. .35 - .46
Butyrate, powd., 17% butyryl content, bgs., dlvd. E lb. .545 - .555
27% butyryl content, bgs., dlvd. E lb. .595 - .605
38% butyryl content, bgs., dlvd. E lb. .545 - .555
50% butyryl content, bgs., dlvd. E lb. .585 - .595
half-second, bgs., dlvd. E lb. .545 - .555
Cerium hydrate, 74% $CeO_2$, fib. dms., 100-lb lots or more lb. 1.44 - —
77% $CeO_2$, fib. dms., 100-lb. lots or more lb. 1.74 - —
Oxalate, NF, bbls., bgs., works lb. 1.05 - —
Oxide, optical grade, bgs., 50-lb. lots or more, works lb. 1.85 - 1.98
smaller lots, works lb. 2.03 - 2.23
Chalk (see Calcium carbonate).
Chamomile flowers, Hungarian style, cs lb. .75 - .80
Roman, cs lb. 1.00 - 1.15
Charcoal, activated, NF, fib. dms., c.l., works lb. .25 - .32
5-ton lots, works lb. .26½- .32¼
smaller lots, works lb. .27 - .30
Bone (see Black, bone).
Hardwood, briquets, bgs., c.l., works ton 77.00 -88.00
gran., bgs., works ton 77.00 - —
bulk, c.l., works ton 70.40 - —
Pinewood, gran., powd., bgs., c.l., works, South ton 55.00 - —
l.c.l., works, South ton 55.00 -65.00
lump bgs., c.l., works, South ton 51.50 - —
l.c.l., works, South ton 61.50 -69.00
bulk, c.l., works, South ton 36.00 - —
Chestnut extract, liq., 25% tannin, bbls., c.l., works lb. .04¾- —
l.c.l., works lb. .0510- —
tanks, works lb. .04 - —
powd., 60% tannin, bgs., extra, c.l., works lb. .1032- —
l.c.l., works lb. .1102- —
Chloral, tech., 94% min., dms., c.l. works lb. .23 - —
l.c.l., works lb. .24 - —
tanks, works lb. .21 - —
Hydrate, USP, 40-lb. jars, 1,000-lb. lots lb. 1.30 - —
500-lb. lots lb. 1.33 - —
100-lb. lots or less lb. 1.35 - —
Chlordan, agricultural, dms., c.l., frt alld lb. .65 - —
l.c.l., 5,000 to 10,000 lb. lots, frt alld lb. .66 - —
clarif., dms., c.l., frt. alld lb. .75 - —
l.c.l., 5,000 to 10,000 lb. lots, frt. alld lb. .76 - —
Chloramine T, NF, bbls., works lb. .75 - 1.00
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb. .15¼- —
l.c.l., same basis lb. .16¼- —
70%, dms., c.l., same basis lb. .18 - —
l.c.l., same basis lb. .19 - —
Rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
l.c.l., works lb. .56 - —
125, 1,000 cps., ctns., c.l., works lb. .65 - —
l.c.l., works lb. .66 - —
Chlorine, liq., cyls., c.l., works, frt. equald lb. .09½- —
l.c.l., Metropolitan area lb. .11 - .12¼
tanks, single units, works, frt. equald 100 lbs. 2.93 - —
multiple units, 5 cars, works, frt. equald 100 lbs. 3.80 - 3.83
3 cars, same basis 100 lbs. 3.80 - —
2 cars, same basis 100 lbs. 5.00 - —
1 car, same basis 100 lbs. 6.00 - —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.45 - —

m-Chloroaniline, dms., c.l., frt. equald lb. .75 - —
l.c.l., same basis lb. .80 - —
o-Chloroaniline, dms., c.l., works, frt. equald lb. .70 - —
l.c.l., same basis lb. .72 - —
p-Chloroaniline, dms., c.l., works, frt. equald lb. .75 - —
o-Chlorobenzaldehyde, dms., works. lb. 1.20 - —
p-Chlorobenzaldehyde, dms., works. lb. 1.33 - —
Chloroform, tech., dms., c.l., dlvd. E lb. .18 - —
l.c.l., same basis lb. .19 - —
tanks, same basis lb. .17 - —
USP, dms lb. .30 - —
2-Chloro-4-nitroaniline, paste, 100% basis lb. .81 - —
4-Chloro-2-nitroaniline, dms., dlvd. lb. .80 - —
o-Chlorophenol, dms., c.l., frt. equald. lb. .34½- —
l.c.l., same basis lb. .35½- —
p-Chlorophenol, dms., c.l., frt. equald. lb. .34½- —
l.c.l., same basis lb. .35½- —
Chlorophyll, oil soluble, 4%, not fixed, pails, tins, works lb. 4.25 - —
copper fixed 6½% tins, pails, works lb 4 25 —
Sodium-copper, aqueous soln., 4%, dms., pails, works lb. 3.75 - —
8%, pails, dms., works lb. 4.00 - 4.80
14%, dms., works lb. 8.90 - —
conc., dom., 50%, dms., works, 100% basis lb. 42.00 - —
75%, dms., works, 100% basis lb. 45.00 - —
90%-100%, dms., works, 100% basis lb 45.00 - —
imp., 60%, tins, 100% basis. lb. 58.00 - —
90%, tins, 100% basis lb. 58 00 - —
75%, tins, 100% basis lb. 58.00 - —
Chloropicrin, coml., bots lb. 1.50 - —
cyls 180 lbs frt alld lb 95 - —
100 lbs., same basis lb. .97 - —
25 lbs same basis lb 1 22 —
Cholesterol, USP, fib, dms., 100-lb. lots lb. 6.85 - 9.50
Choline bitartrate fib dms. frt adjusted lb 1.50 1.75
Chloride fib dms. frt. adjusted. lb 1.50 1.75
Dihydrogen citrate, fib, dms., frt. adjusted lb 1.50 1.75
Chromium acetate, soln., 7½%, bbls., works lb. .08½- —
cbys works lb. 10¼ —
Fluoride, bbls., works lb. .51 - .52
Green (see Green, chrome).
Oxide (see Green chromium oxide).
Trioxide NF bots lb 82 89
Yellow (see Yellow, chrome).
Cinchona bark, NF, red, broken, bgs lb. .35 - .40
yellow, broken, bgs lb. .35 - .40
Cinchonidine cryst. cns. 100-oz. lots. oz. .65 - —
Sulfate cns., 100-oz. lots oz. .37 - .40½
Cinchonine cryst. cns., 100-oz. lots. oz. .52 .57
Sulfate, NF, cns., 100-oz. lots oz. .27½- .30½
Cinchophen NF heavy density, dms. frt adjusted lb. 3.70 4.05
standard density, dms., same basis lb 3.50 3.85
Cinchophen-sodium, dms., frt. adjusted lb 4.50 4.85
Cinnamic alcohol (see Alcohol cinnamic).
Cinnamon, Ceylon, No. 2 lb. .59 - .60
"0000," bgs., shipt lb. Nominal.
Citral, bots., cns lb. 4.00 - 4.50
Citronellal, bots., dms lb. 1.85 - 2.50
Citronellol, bots., dms lb. 2.70 - 3.25
Civet, artif., bots lb. 13.75 -15.00
nat., bots oz. 7.50 -15.00
Clay, ball, dom., airfloated, bgs., c.l., Tenn. ton. 19.50 - —
crushed, shed moisture, bulk, c.l., Tenn ton. 10.00 - —
purif., bgs., c.l., Tenn ton. 20.50 - —
imp., airfloated, bgs., c.l., Atl. port long ton. 42.00 -45.00
lump, bulk, Atl. port long ton. 27.00 -30.20
China, dom., dry-grd., airfloat, 99%, 325 mesh, bgs., c.l., Georgia, works ton. 10.00 - —
l.c.l., Georgia, works. ton. 15.50 - —
300 mesh, bgs., c.l., Georgia, works ton. 13.50 -14.50
l.c.l. ton. 35.00 -36.00
imp., white, lump, bulk, c.l., ex dock, Phila., Portland, Me. gross ton. 20.00 -35.00
powd., bgs., c.l., ex dock net ton 50 00 —
l.c.l., ex whse net ton. 60.00 -65.00
Clove, Madagascar, bgs. lb. .62 - .63
Zanzibar, bls. lb. .72 - .73
CMC, purif., high vis. (see Gum Cellulose).
standard, low or med. vis., bgs., 23,000 lbs. or over, works, frt. alld lb. .55 - —
smaller lots, same basis lb. .57 - —
80% purity, low or med. vis., bgs., or fib. dms., 23,000 lbs., dlvd. E., 100% basis. lb. .39 - —
less than 23,000 lbs., dlvd. E., 100% basis lb. .41 - —
85% purity, bgs., or fib. dms., c.l., dlvd. E., 100% basis, lb. .39 - —
l.c.l., dlvd. E., 100% basis. lb. .41 - —

CMC prices W. of the Rockies are 2c. per lb. lower, and are on a works basis.

Coaltar, crude, resale dms., c.l., ex-whse gal. .275 - .30
l.c.l., ex-whse gal. .285 - .32
tanks ex works gal. .154 - .165
refd., resale, dms., c.l., ex-whse. gal. .2850- .3125
l.c.l., ex-whse gal. .2900- .3245
tanks, ex-whse gal. .1650- .1760
Cobalt acetate, 23.7%, bbls., dlvd. lb. 1.37 - 1.30
Carbonate, 46% powd., bgs., dlvd. lb. 2.15 - —
Chloride 24.2% Co. kgs., dlvd. lb. 1.20 - —
Hydrate, 60-61% Co, bbls., dlvd. lb. 2.72 - —
Linoleate, fused, 8½% Co., dms. lb. .75¾- —
liq., 6% Co., dms lb. .61 - —
Metal, 97-99% kgs., ex whse lb. 2.60 - —
Naphthenate, liq., 6% Co., dms., dlvd lb. .48¼- —
Nitrate, 20.1% Co, bbls., dlvd lb. 1.00 - —
Phosphate, powd., 32.1% Co., kgs., dlvd lb. 1.69 - —
Oxide, black, 72½-73½% Co., kgs. lb. 1.96 - —
70-71% Co., kgs lb. 1.90 - —
Resinate, fused, 3% Co., dms lb. .29¾- —
Sulfate, cryst. 21% Co., dms., dlvd lb. .89 - —
monohydrated, 33% Co., dms., dlvd lb. 1.40 - —
Tallate, 6% Co., dms., dlvd lb. .43¾- —
Cocaine, USP, cns., 100-oz. lots oz. 17.80 - —
Hydrochloride, cns., 100-oz. lots oz. 13.75 - —
Cochineal, USP, gray, bgs lb. 1.10 - 1.35
Cocillana bark, bgs lb. .40 - .60
Cocoa butter, bgs lb. .88 - —

Codeine, NF, cns., 100-oz. lots oz. 13.25 - —
Hydrochloride, cns., 100-oz. lots oz. 11.75 -
Phosphate, USP, cns., 100-oz. lots. oz. 10.25 - —
Sulfate, USP, cns., 100-oz. lots oz. 10.75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb. .20 - .22
blue, bls lb. .20 - .22
Colchicine, USP, bots., cns. oz. 33.50 -40.00
Colchicum root, bls lb. .45 - .55
seed, bgs lb. .80 - 1.10
Collodion, USP, dms lb. .32½- —
flexible, USP, dms lb. .34 - —
Colocynth, pulp, bls lb. .25 - .30
Colombo root, bls lb. .20 Nom.
Condurango bark, bales lb. .45 - .50
Copaiba balsam, cns., dms lb. .90 - 1.20
Copper acetate, bbls., c.l., works. lb. .40 - —
l.c.l., works lb. .41 - —
Carbonate, 55%, bgs., works lb. .253 - .273
Chloride, anhyd., bbls., works lb. .39 - —
cryst., bbls., works lb. .28¼- —
Cyanide, tech., bbls., 1,000-lb. lots or more lb. .619 - —
smaller lots lb. .639 - —
Gluconate, cns., dms lb. 3.00 3 24
Hydrate, dms., frt. alld. E. Miss lb. .40¼- .40¾
Metal, electrolytic, dlvd., Valley basis lb. .30 - —
Naphthenate, liq., 8% Cu., dms., frt. alld lb. .23½- —
Nitrate, tech., cryst., bbls., works. lb. .33¼- —
Oleate, solid, 9% Cu, dms., works lb. .45 - —
Oxide, black, bbls., works lb. .39 - .44½
red, USN type I, 97%, bbls., works lb. .48½- .58
type II, 90%, bbls., works lb. .41 - .46½
Quinolinolate, fib. dms lb. 4.25 - 4.50
Resinate, precip., dms., frt. alld. lb. .30 - —

Copper sulfate, CP, gran., bbls., works lb. .1715- —
cryst., 99%, bgs., c.l., works. 100 lbs. 10.35 - -
l.c.l., works 100 lbs. 10.60 -11.35
monohydrated, 35% dms., c.l., works 100 lbs. 17.10 -17.65
tribasic, dealers, bgs., c.l., works, frt. alld 100 lbs. 22.50 - —
l.c.l., works 100 lbs. 23.00 -24.50
Undecylenate, dms lb. 2.90 - 3.00
Copperas (see Ferrous sulfate).
Copra, Atl., Gulf ports, c.i.f. ton. 182.50 - —
Pacific ports, c.i.f. ton. 177.50 - —
Coriander seed, Moroccan, bgs. lb. .11 - .11½
Roumanian, bgs. lb. .08 - .08½
Corn sugar, tanners, chipped, paper bgs. c.l. 60,000 lbs. min. 100 lbs 7.31 - —
l.c.l. 100 lbs. 7.46 - —
Syrup, 42° dms. c.l. 100 lbs 7.32 - —
l.c.l. 100 lbs. 7.46 - —
Corrosive sublimate (see Mercuric Chloride).
Cortisone acetate, NNR, bulk gram. 3.75 - 4.00
Cottonseed meal, exp. 41%, sacked, Memphis ton. 69.00 - —
solvent, same basis ton. 65.00 Nom.
Coumarin, cryst., NF, cns lb. 2.94 - 3.15
powd., cns. lb. 3.20 - 3.25
Cramp bark, NF, bls lb. .85 - .90
Cream of tartar (see Potassium bitartrate).
Creosote carbonate, NF, bots. cbys. lb. 3.05 - 3.36
Coaltar, crude, tanks, works, frt. adjusted gal. .22 —
soln., 80%, tanks, works gal. .2068- —
refd., dms., c.l., works gal. .3850- —
l.c.l. same basis gal. .4510- —
tanks, same basis gal. .2970- —

Creosote, wood, beechwood, cbys, dms. lb. 1.60 - 1.65
hardwood, NF, bots., cbys. lb. 1.30 - 1.35
pinewood, dms., works gal. .42½ .50½
Cresol, tech., 50% below 204°C., dry above 207 C., wide distillation range, non-ret. dms. c.l. frt equald lb. .133 - —
l.c.l. same basis lb. .136 - —
tanks, same basis lb. .12 - —
USP, non-ret. dms., c.l., same basis lb. .143 - —
l.c.l., same basis lb. .146 - —
ret dms., c.l. same basis lb. .140 - —
l.c.l., same basis lb. .145 - —
tanks, same basis lb. .130 - —
m-Cresol, 95-98%, dms., c.l., works. lb. .60 - —
l.c.l., works lb. .61 - —
o-Cresol, m.p. over 30°C., ret. dms., c.l., frt. equald lb. .173 - —
l.c.l., same basis lb. .176 - —
tanks, same basis lb. .16 - —
29°C., ret. dms., c.l., frt. equald. lb. .16 - —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .15 - —
25-29°C., dms., c.l., frt. equald. lb. .153 - —
l.c.l., same basis lb. .156 - —
tanks, same basis lb. .14 - —
p-Cresol, 98%, dms., c.l., dlvd lb. .49 - —
l.c.l., dlvd lb. .51 - —
Methyl ether, cns lb. 1.90 - 2.50
Crotonaldehyde, 91-93%, dms., l.c.l., works lb. .24¼ .25
Cryolite, nat., indust., bgs., c.l., works 100 lbs. 13.00 - —
l.c.l., works 100 lbs. 14.25 - —
Insecticide, dealers, bgs., c.l., dlvd 100 lbs. 14.00 - —
l.c.l., dlvd. 100 lbs. 15.00 - —

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OPD-10-54

## Cube Root—2,4-Dinitroaniline

Cube root, powd., 5% rotenone, bgs., works lb. .25 - —
Cubeb berries, XX, NF, bgs lb .50 - .51
powd., cs. lb .58 - .59
Cumene dms., c.l., works lb .12 - —
l.c.l. works lb. .14 - —
tanks works lb .11 - —
Cumin seed, Iranian, bgs. lb. .13¼ - —
Moroccan, bgs. lb. .15 - —
Turkish, bgs. lb. .13¼ - —
Cutch extract, 55% tannin bgs., ex dock, duty extra lb. .08½ - —
Cyanamide fertilizer mixing grades, 20.6% N, gran., bgs., Niagara Falls, Ont., contract ton 55.00 - —
pulv 21% N, bgs., works unit-ton 2.75 - —
indust. grade, bgs., c.l., works ton.75.00 - —
l.c.l. bgs., works ton.96.00 - —
6-16 mesh, dms., c.l., works ton.120.00 - —
l.c.l. dms., works ton.140.00 - —
Cyclohexane, tech., dms., c.l., works. gal. .70 - —
l.c.l., works gal. .72 - —
tanks works gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28½- .37¾
l.c.l., works, same basis lb. .30 - .38¼
tanks, works, same basis lb. .27 - .36¼
Cyclohexanone, tech., dms., c.l., works lb. .33½- —
tanks, works lb. .32 - —
Cyclohexylamine, dms., c.l., works. lb. .46½- —
l.c.l., works lb. .47½- —
tanks, works lb. .45 - —
l.c.l. works lb. .35 - —
Cyclopropane, CP, 2-lb. cyls., works. cyl 48.00 - —
6 oz. cyls., works cyl.12.00 - —
Cyclopropane, USP, hospitals, cyls., 40-gal. lots gal. .38 - —
100-gal. lots gal. .37 - —
200-gal. lots gal. .36 - —

## D

2-4-D, bbls., c.l., works, frt. equald. lb. .43½- —
l.c.l., same basis lb. .494 - —
Butyl ester, dms., c.l., works lb. .46½- —
l.c.l., same basis lb. .51½- .56½
Isopropyl ester, dms., c.l., works. lb. .46½- —
l.c.l., works lb. .51½- .56½
Dandelion root, bls lb. .35 - .40
DDD, tech., flake, grd., fib. bgs., c.l., works lb. .45 - —
l.c.l., works lb. .46 - —
DDT powder, bgs., c.l., works, frt. equald lb. .27 - —
smaller lots, same basis lb. .29 - —
fib. dms., c.l., same basis lb. .28 - —
smaller lots, same basis lb. .30 - —
1-Decanol, tech., dms., c.l., dlvd lb. .35 - —
l.c.l., dlvd lb. .37 - —
tanks, dlvd lb. .32½- —
Deertongue leaves, bls lb. .45 - —
Defluorinated phosphate, 13% P, paper bgs., works ton.49.50 - —
14½% P, paper bgs, works ton.48.00 - —
17% P, paper bgs., works ton.56.00 - —
18% P, paper bgs., works ton.64.35 - —
Degras, common, bbls lb. .10 - .12
neutral, less 2% ffa., bbls lb. .24 - .25
over 2% ffa., bbls lb. .23 - .24
Derris root, 5% rotenone powd., bbls lb. .26 Nom.
d-Desoxyephedrine hydrochloride bots lb.25.00 - —
dl, bots. lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l., 100 lbs. 8.95 - —
l.c.l. 100 lbs 9.10 - —
canary paper bgs, c.l. 100 lbs 8.69 - —
l.c.l. 100 lbs 8.84 - —
dark, paper bgs., c.l. 100 lbs 8.79 - —
l.c.l. 100 lbs 8.94 - —
white, paper bgs., c.l. 100 lbs. 8.53 - —
l.c.l. 100 lbs. 8.68 - —
Corn dextrin in cotton bgs. 25c. per 100 lbs. higher.
Potato bgs. lb. .10½- .11
Dextrose, USP, dms. lb. .17¾- —
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots lb. 4.50 - 5.50
Di-sec-amyl phenol, dms., c.l., works lb. .30¼- —
l.c.l., works lb. .33¼- —
tanks, works lb. .28¼- —
Di-tert-amyl phenol, dms., c.l., works lb. .30¼- —
l.c.l., works lb. .33¼- —
tanks, works lb. .28¼- —
o-Dianisidine fib. dms lb. 2.00 - —
Dibenzyl sebacate, dms., c.l., works. lb. .89¾- .90
l.c.l., same basis lb. .90¼- .91
tanks, same basis lb. .88 - —
p-Dibromobenzene, bgs., 500-lb. lots lb. .55 - —
Dibutyl phthalate, dms., c.l., dlvd. E lb. .32 - —
l.c.l., same basis lb. .33 - —
tanks, same basis lb. .30 - —
Sebacate, dms., c.l., works lb. .68 - —
l.c.l., works lb. .68½- .69
tanks, works, dlvd lb. .66 - .66¼
Tartrate, dms., works, frt. alld lb. .64 - .71
Dibutylamine, dms., c.l., dlvd lb. .55 - —
l.c.l., same basis lb. .56 - —
tanks, same basis lb. .53 - —
Di-tert-butyl-p-cresol, dms., c.l., works lb. .91 - —
l.c.l., works lb. .95 - —
Dicapryl phthalate, dms., c.l., dlvd., works lb. .30½- .31½
l.c.l., same basis lb. .31½- .32½
tanks, same basis lb. .29½- —
Sebacate, dms., c.l., works lb. .63 - —
l.c.l., works lb. .63½- .64
tanks, works lb. .61 - —
2,5-Dichloroaniline dms., works lb. .75 - .83
o-Dichlorobenzene, dms., c.l., frt. alld. E lb. .12¼- —
l.c.l., same basis lb. .13¼- —
tanks, same basis lb. .10¾- —
p-Dichlorobenzene, dms., c.l., frt. alld. E lb. .16½- —
l.c.l., same basis lb. .19 - —
Dichlorodiphenyltrichloroethane (see DDT).
Dichloropentanes, dist., dms., c.l., works lb. .05 - —
l.c.l., works lb. .05¾- —
tanks, works lb. .04¼- —
Dicyclohexylamine, dms., c.l., works. lb. .51 - —
l.c.l., works lb. .51¾- —
tanks works lb. .49¾ - —
Dicyclohexyl phthalate, fib. dms., c.l., frt. alld., works lb. .58¼- .59
l.c.l., same basis lb. .59¼- .60
Dieldrin, dms., frt. alld lb. 1.80 - —
l.c.l., frt. alld lb. 1.85 - —
Diethanolamine, dms., c.l., dlvd. E. lb. .26¼- —
l.c.l., same basis lb. .27¼- —
tanks, same basis lb. .24½- —
Diethyl carbonate, dms., c.l., frt. alld lb. .47 - —
l.c.l., same basis lb. .48 - —
tanks same basis lb. .45 - —
Ethanolamines, dms., c.l., dlvd lb. .67½- —
l.c.l., dlvd lb. .68½- —
tanks, dlvd lb. .65½- —
Oxalate, dms., c.l., frt. alld. lb. .42 - —
l.c.l., same basis lb. .43 - —
tanks, same basis lb. .40 - —
Phthalate, dms., c.l., dlvd lb. .27 - —
l.c.l., dlvd. lb. .28 - —
tanks, dlvd. lb. .25 - —
Sulfate, dms., c.l., works lb. .18¾- —
l.c.l. works lb. .19¼- —
tanks works lb. .17 - —
Diethylamine, dms., c.l., dlvd. E lb. .50½- —
l.c.l., same basis lb. .51½- —
tanks, same basis lb. .48½- —
N,N-Diethylaniline, dms., c.l., frt. alld lb. .51 - —
l.c.l., same basis lb. .52 - —
tanks, same basis lb. .50 - —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Phthalate (see Dioctyl phthalate).
Diethylene glycol, dms., c.l., dlvd. E. lb. .16½- —
l.c.l., same basis lb. .17½- —
tanks, same basis lb. .14¾- —
Boriborate, dms., l.c.l. lb. .31 - —
Diethyl ether, dms., c.l., works. lb. .46½- —
l.c.l., works lb. .47 - —
Monobutyl ether, dms., c.l., works lb. .23¾- —
l.c.l., works lb. .29¼- —
tanks, works lb. .27 - —
Acetate, dms., c.l., works lb. .30 - —
l.c.l., works lb. .30½- —
tanks, dlvd. E lb. .28¼- —
Monoethyl ether, dms., c.l., dlvd. lb. .20¾- —
l.c.l., dlvd lb. .21½- —
tanks, dlvd lb. .19½- —
Acetate, dms., c.l., works lb. .26¾- —
l.c.l., works lb. .27¼- —
tanks, dlvd. E lb. .25¼- —
Monomethyl ether, dms., c.l., works lb. .20 - —
l.c.l., works lb. .21 - —
tanks, works lb. .18½- —
Diethylenetriamine dms., c.l., dlvd E. lb. .43 - —
l.c.l., same basis lb. .44 - —
tanks, same basis lb. .41¼- —
Diethylstilbestrol, USP, bots., 10-kilo lots kilo.100.00 - —
1-kilo lot kilo.110.00 - —
Digitalis leaves, USP, dom., dms., lb 90 - 1.10
Digitoxin, USP, bots gram. 5.50 - 6.00
Diglycol laurate, dms lb. .35 - .38
Oleate, dms lb. .31 - —
Stearate, dms lb. .26 - .27
Dihexyl sebacate, dms., c.l., works lb. .64 - —
l.c.l., works lb. .64½- .65
tanks, works lb. .62 - —
Dihydrazine sulfate, dms., works. lb. 1.10 - 1.25
Dihydrostreptomycin hydrochloride, bulk gram. .17 - —
Sulfate, bulk gram. .17 - —
2,2-Dihydroxy-5,5'-dichloro-diphenyl-methane, pure, dms lb. 2.80 - 3.00
tech., dms lb. 1.04 - 1.14
Di-isobutyl ketone, dms., c.l., dlvd. lb. .15½- —
l.c.l., dlvd lb. .16½- —
tanks, same basis lb. .13½- —
Phthalate, dms., c.l., dlvd. E lb. .31 - —
l.c.l. same basis lb. .32 - —
tanks, same basis lb. .29 - —
Di-isobutylene dms., c.l., works lb. .10 - —
l.c.l., works lb. .11 - —
tanks, works lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., dlvd lb. .32½- —
l.c.l., same basis lb. .33½- —
tanks, same basis lb. .30½- —
Sebacate, dms., c.l., works, lb. .63 - —
l.c.l., works lb. .63½- .64
tanks, works, dlvd lb. .61 - .61¼
Di-isopropylamine, dms., c.l., dlvd. E. of Rockies lb. .50 - —
l.c.l., same basis lb. .51 - —
tanks, same basis lb. .48 - —
Dillseed, dewhiskered, bgs. lb. .13 - —
nat., bgs. lb. .12 - —
Dimethyl anthranilate, cns lb. 5.25 - 5.75
Chloroacetal, dms., c.l., works lb. .45 - —
l.c.l., works lb. .50 - —
tanks, works lb. .40 - —
Ethanolamines, annyd., dms., c.l., dlvd. lb. 1.43 - —
l.c.l., dlvd lb. 1.45 - —
tanks, dlvd lb. 1.40 - —
70%, dms., c.l., dlvd., 100% basis lb. .55 - —
tanks, dlvd., 100% basis lb. .53 - —
Hydroquinone, dms lb. 1.70 - 2.75
Phthalate, dms., c.l., works lb. .29½- —
lb. .29½- —
l.c.l., works lb. .30½- —
tanks, dlvd. lb. .27½- —
Sebacate, dms., c.l., works lb. 1.27 - —
l.c.l., works lb. 1.28 - —
tanks, works lb. 1.25 - —
Sulfate, 55-gal., ret. dms., c.l., works lb. .15 - —
l.c.l. works lb .16 - —
10-gal. ret. dms., l.c.l., works. lb. .16½- —
Dimethylamine, 25% soln., dms., c.l., frt. equald lb. .42 - —
l.c.l., frt. equald lb. .42½- —
tanks, frt. equald lb. .33 - —
40% soln., dms., c.l., frt. equald lb. .39 - —
l.c.l., frt. equald lb. .39½- —
tanks, frt. equald lb. .33 - —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .29½- —
l.c.l., frt. alld lb. .30½- —
tanks, frt. alld lb. .28½- —
N,N-Dimethylformamide dms., works. lb. .34 - .36
tanks, works lb. .33 - —
2,4-Dinitroaniline, dms., frt. equald lb. .57 - —

Eastman half-second butyrate is a new film former that produces durable protective and decorative coatings for paper, boxboard and foil.

One of its outstanding characteristics is the high gloss it imparts to all surfaces. On an ideal stock, butyrate coatings have given glossmeter readings as high as 95%, while remarkably good gloss can be given even to such rough surfaces as kraft paper.

Coverage is high. In an experimental run on production equipment, standard and butyrate coatings were compared for gloss while decreasing film thickness. The butyrate gloss held up without noticeable decrease until the coating was about 2 pounds per ream. The standard coating could not be reduced below 4 pounds per ream without serious loss of gloss.

Half-second butyrate is a low-viscosity material readily soluble in economical solvents. It produces films of low color and high clarity with superior strength and flexibility at both normal and low temperatures. Butyrate films show excellent abrasion resistance and are heat sealable.

Coatings made with half-second butyrate can be applied either as a solvent solution or a hot melt.

Write for more information on the use of Eastman half-second butyrate in paper coatings. Samples and formulation suggestions are available upon request.

**Decorative and protective coatings made with HALF-SECOND BUTYRATE offer all these desirable properties**

HIGH GLOSS
HIGH COVERAGE
NON-YELLOWING
GOOD ADHESION
GOOD MAR RESISTANCE
HEAT SEALABILITY
NON-BLOCKING
WATER REPELLENT
EASY TO APPLY
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m-Dinitrobenzene, 85°C., dms.... lb. .20 - —
89°C., dms.... lb. .22 - —
2,4-Dinitrochlorobenzene, dms., c.l., frt. alld. E lb. .15¼ - —
l.c.l., frt. alld. E.... lb. .15¾ - —
tanks, frt. alld., E.... lb. .15 - —
2,4-Dinitrophenol, bbls.... lb. .37 - —
2,4-Dinitrotoluene, oily, dms.... lb. .10 - —
refd., 68°C., dms.... lb. .21 - —
Dioctyl adipate, dms., c.l., works. lb. .45½ - —
l.c.l., works.... lb. .46½ - —
tanks, works.... lb. .43½ - —
Phthalate, dms., c.l., frt. alld.. lb. .32½ - —
l.c.l., frt. alld.... lb. .33½ - —
tanks, frt. alld.... lb. .30½ - —
Sebacate, dms., c.l., works. lb. .63 - —
l.c.l., works.... lb. 63½ - .64
tanks, works, dlvd.... lb. .61 - .61½
Di-o-tolyguanidine, dms., ton lots, dlvd. lb. .57 - —
smaller lots dlvd.... lb. .58 - —
1,4-Dioxane, dms., c.l., works... lb. .28¾ - —
l.c.l. same basis lb. 29¼ - —
tanks same basis lb. 27 - —
Dip oil (see Tar acid oil).
Dipentaerythritol, bgs., l.c.l., works. .35 - —
Dipentene, dest-dist., dms., c.l., works gal. .48½ - —
l.c.l., works.... gal. .53½ - —
ex-whse.... gal. .70 - —
steam-dist., dms., c.l., works, South. gal. .64 - —
dlvd. N. Y.... gal. .82 - —
tanks, works, South.... gal. .50 - —
Diphenyl, bbls., c.l., works.... lb. .15 - —
l.c.l. works lb. .16 - —
Diphenyl in bags ¼c. lower.
Oxide, perfume grade, cns lb. .54 - .61
Phthalate, dms., c.l., works... lb. .51¾ - —
l.c.l., works lb. .53¾ - —
Diphenylguanidine dms., ton lots lb. .48 - —
smaller lots lb. .49 - .50
Diphenylhydantoin-sodium, USP, dms lb. 5.30 - 5.60
Dipropylene glycol, dms., c.l., frt. alld. lb. .16½ - —
l.c.l., same basis.... lb. .17½ - —
tanks, same basis.... lb. .14¾ - —
Monomethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., same basis.... lb. .21 - —
tanks, same basis.... lb. .18½ - —
Divi-divi, 45% tannin, bgs., bls., c.l., U.S. ports, exdock.. ton. 70.00 - 72.00
Divinylbenzene, 20-25%, dms., c.l., works.. lb. .20 - —
l.c.l., works.... lb. .21 - —
tanks, works.... lb. .19 - —
40-50%, dms., c.l., works, 100% basis. lb. 1.00 - —
l.c.l., works, 100% basis.. lb. 1.15 - —
Dodecylbenzene, dms., c.l., frt. equald.. lb. .14½ - —
l.c.l., same basis.... lb. .15½ - —
tanks, same basis.... lb. .12½ - —

**Dyes, coaltar, certified colors for food, drugs and cosmetics, 5-lb. and 1-lb. lots dlvd:—**

Blue, FD & C, No. 1, cns.... lb. 17.00 - 17.60
No. 2, cns.... lb. 17.00 - 17.60
Green, FD & C, No. 1, cns.... lb. 17.00 - 17.60
No. 2, cns.... lb. 22.20 - 22.85
No. 3, cns.... lb. 35.25 - 35.90
Orange, FD & C, No. 1, cns.... lb. 3.65 - 3.75
No. 2, cns.... lb. 4.65 - 4.75
Red, FD & C, No. 1, cns.... lb. 7.55 - 7.85
No. 2, cns.... lb. 4.00 - 4.10
No. 3, cns.... lb. 22.20 - 22.85
No. 4, cns.... lb. 7.20 - 7.50
No. 32, cns.... lb. 5.30 - 5.40
Violet, FD & C, No. 1, cns.... lb. 17.00 - 17.60
Yellow, FD & C, No. 1, cns.... lb. 10.50 - 11.05
No. 3, cns.... lb. 3.30 - 3.40
No. 4, cns.... lb. 3.30 - 3.40
No. 5, cns.... lb. 4.00 - 4.10
No. 6, cns.... lb. 4.00 - 4.10

**Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—**

Black, D&C, No. 1, cns.... lb. 10.95 - —
Brown, D&C, No. 1, cns.... lb. 16.10 - —
Green, D&C, No. 5, cns.... lb. 16.10 - —
No. 6, cns.... lb. 16.10 - —
No. 7, cns.... lb. 14.80 - —
Orange, D&C, No. 3, cns.... lb. 10.95 - —
No. 4, cns.... lb. 20.05 - —
No. 5, cns.... lb. 5.70 - —
No. 10, cns.... lb. 20.70 - —
Red, D&C, No. 8, cns.... lb. 2.85 - —
No. 9, cns.... lb. 2.85 - —
No. 10, cns.... lb. 2.30 - —
No. 11, cns.... lb. 1.85 - —
No. 12, cns.... lb. 2.65 - —
No. 17, cns.... lb. 10.95 - —
No. 18, cns.... lb. 24.00 - —
No. 19, cns.... lb. 15.45 - —
No. 21, cns.... lb. 3.60 - —
No. 22, cns.... lb. 10.95 - —
No. 28, cns.... lb. 24.65 - —
No. 33, cns.... lb. 17.45 - —
Violet, D&C, No. 2, cns.... lb. 16.10 - —
Yellow, D&C, No. 7, cns.... lb. 10.95 - —
No. 10, cns.... lb. 13.50 - —
No. 11, cns.... lb. 13.50 - —

**Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots, dlvd:—**

Blue, Ext., D&C, No. 1, cns.. lb. 16.10 - —
Green, Ext., D&C, No. 1, cns.. lb. 16.10 - —
Red, Ext., D&C, No. 1, cns.... lb. 13.50 - —
Yellow, Ext., D&C, No. 1, cns. lb. 10.95 - —

**Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.**

20 Chrysoidine Y.... lb. .74 - —
27 Fast light orange 2G.... lb. .90 - —
31 Phloxine 2G.... lb. .74 - —
36 Yellow 2G.... lb. .83 - —
40 Orange R extra, conc... lb. 1.06 - —
57 Fuchsine 6B.... lb. 1.08 - —
79 Scarlet 2R.... lb. .51 - —
151 Orange AD.... lb. .55 - —
161 Orange RR.... lb. .66 - —
176 Fast red A.... lb. .99 - —
179 Rubine XX, conc.... lb. 1.14 - —
180 Blue F4B.... lb. .92 - —
185 Brilliant scarlet 3RN, conc. lb. .93 - —
202 Chrome blue black, conc. lb. .75 - —
203 Chrome black T.... lb. .76 - —
208 Fast blue SR.... lb. .91 - —
216 Chrome red B.... lb. .84 - —
234 Brown Y.... lb. .96 - —
246 Blue black, extra, conc.. lb. .95 - —
275 Milling red 3R, conc.... lb. 2.03 - —
289 Navy blue 3R, conc.... lb. 1.19 - —
299 Black F, conc.... lb. 1.54 - —
304 Neutral black 2B, conc., 200%.. lb. 2.01 - —
326 Fast scarlet 4BNC.... lb. 1.64 - —
332 Bismarck brown RX, conc. lb. .95 - —
365 Brilliant yellow, conc.... lb. 2.57 - —
382 Scarlet B.... lb. 1.82 - —
401 Diazo black BHD.... lb. .69 - —
406 Blue 2B, extra conc.... lb. 1.07 - —
419 Red FC, conc.... lb. 1.12 - —
420 Brown M.... lb. .98 - —
448 Red 4BX, conc.... lb. 1.30 - —
518 Diamine sky blue FF, extra, conc. lb. 1.50 - —
561 Brown B.... lb. 2.03 - —
581 Direct black EB.... lb. .94 - —
593 Green BY, conc.... lb. .72 - —
596 Yellow Brown K, extra.. lb. .91 - —
620 Yellow 2G.... lb. 1.79 - —
640 Yellow XX.... lb. 1.61 - —
655 Yellow OX.... lb. 2.04 - —
657 Green V.... lb. 2.10 - —

**Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd.. No.**

662 Brilliant green G.... lb. 2.79 - —
667 Brilliant milling green 6B, conc. lb. 3.66 - —
671 Blue EG.... lb. 1.70 - —
681 Crystal violet powder.... lb. 2.15 - —
696 Violet 4BXN.... lb. 1.74 - —
720 Brilliant blue BBG.... lb. 1.88 - —
729 Blue B, conc.... lb. 2.79 - —
749 Red BX.... lb. 4.33 - —
814 Yellow NN, conc.... lb. 3.11 - —
841 Safranine GF, extra, conc., lb. 3.17 - —
865 Nigrosine WSJ.... lb. .75 - —
922 Blue GXX.... lb. 1.71 - —
978 Black GXCF, conc.... lb. .32 - —
1034 Alizarine red SC.... lb. 2.59 - —
1054 Alizarine blue SAPX.... lb. 2.91 - —
1078 Alizarine green CG, extra. lb. 2.72 - —
1085 Alizarine blue, black, B lb. 2.33 - —
1096 Golden orange GFD, single paste lb. 1.99 - —
1099 Dark blue BO, single paste. lb. 1.75 - —
1101 Jade green N, double paste. lb. 1.98 - —
1106 Blue RS, double paste lb. 2.96 - —
1113 Blue BLFD, double paste. lb. 2.25 - —
1150 Olive R, single paste lb. 1.10 - —
1151 Brown R, single paste lb. 1.76 - —
1171 Indigo, synthetic, 20% paste lb. .31 - —
1217 Orange RD, single paste. lb. 1.65 - —
p-4 Brown PG.... lb. 2.30 - —
p-24 Gray L.... lb. 1.60 - —
p-14 Brown EB.... lb. 1.51 - —
p-80 Diazo brilliant scarlet ROAD lb. 2.79 - —
p-202 Diazo black VJ, conc.... lb. 1.74 - —
p-244 Brilliant scarlet BN.... lb. 1.31 - —
p-313 Naphthol SWF.... lb. 2.42 - —

**Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.**

Black blue No. 550.... lb. .81 - —
Jet No. 551.... lb. .89 - —
Brown R, conc.... lb. 1.72 - —
Orange R, brilliant.... lb. .90 - —
Red 4B, conc.... lb. 1.37 - —
Yellow C.... lb. 1.18 - —
FN, conc.... lb. 1.22 - —

**Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms., sellers' works:—**

Auramine O.... lb. 1.85 - —
Black, basic blue.... lb. 1.21 - —
Jet.... lb. 1.21 - —
Blue, methylene, 2 B, conc.. lb. 1.71 - —
Brown Bismarck R, conc.... lb. .86 - —
Chrysoidine, R, extra.... lb. .60 - —
Y extra.... lb. .64 - —
Fuchsine, conc.... lb. 3.08 - —
Green, malachite, conc.... lb. 2.10 - —
Rhodamine, B.... lb. 4.33 - —
Safranine, Y, conc.... lb. 2.90 - —
Violet, methyl, B.... lb. 1.10 - —

**Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works:—**

Azo rubine R, extra conc.. lb. 1.04 - —
Black, acid blue, B, extra. lb. .86 - —
Fast light, 3 G, extra.... lb. 2.04 - —
Methanil, conc.... lb. .91 - —
Orange acid, Y, conc.... lb. .47 - —
Scarlet croceine, MOO.... lb. 1.45 - —
Yellow, azo, conc.... lb. .90 - —

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.



## E

Echinacea root, bls.... lb. 1.10 - —
Egg albumin (see Albumin).
Yolk, dried, dom., bbls.... lb. 1.04 - 1.06
tanners, bbls.... lb. .06 - .06½
Elder flowers, bright, bls.... lb. .35 - .40
Elm bark, grinding, bls.... lb. .45 - —
powd., bbls., bxs.... lb. .55 - —
select, bundles.... lb. .60 - —
Emetine hydrochloride, USP, bots oz. 32.95 - 35 00
Ephedrine, syn., USP, anhyd., bots., 100-oz. lots oz. .98 - 1.00
hydrous, bots., 100-oz. lots oz. .92 - —
Hydrochloride, tins, 100-oz. lots. oz. .75 - —
Sulfate, cryst., tins, 100-oz. lots. oz. .72 - —
powd., tins, 100-oz. lots... oz. .73 - —
Epichlorohydrin, dms., c.l., dlvd.. lb. .39 - —
l.c.l., dlvd.... lb. .40 - —
tanks, dlvd.... lb. .37 - —
Epsom salt (see Magnesium sulfate).
Epinephrine, syn., USP, bots., 100-gram lots gram. .45 - .55
Ergosterol, unirradiated, crvst. kilo. 150.00 - —
Ergot, NF, dms., tin-lined.... lb. 3.00 - —
Eserine salicylate, bots.... oz. 29.75 -32.50
Sulfate, bots.... oz. 34.50 -35.61
Ether (see specific product).
Ethyl acetate, nat. ferment., 85-88%, dms., c.l., frt. alld. lb. .13 - —
l.c.l., frt alld.... lb. .14 - —
tanks, frt alld.... lb. .11 - —
95-96%, dms., c.l., frt. alld. lb. .13¼ - —
l.c.l., frt. alld.... lb. .14¼ - —
tanks, frt alld.... lb. .11¼ - —


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### Ethyl Acetate, Nat., Ferment.—Glauber's Salt

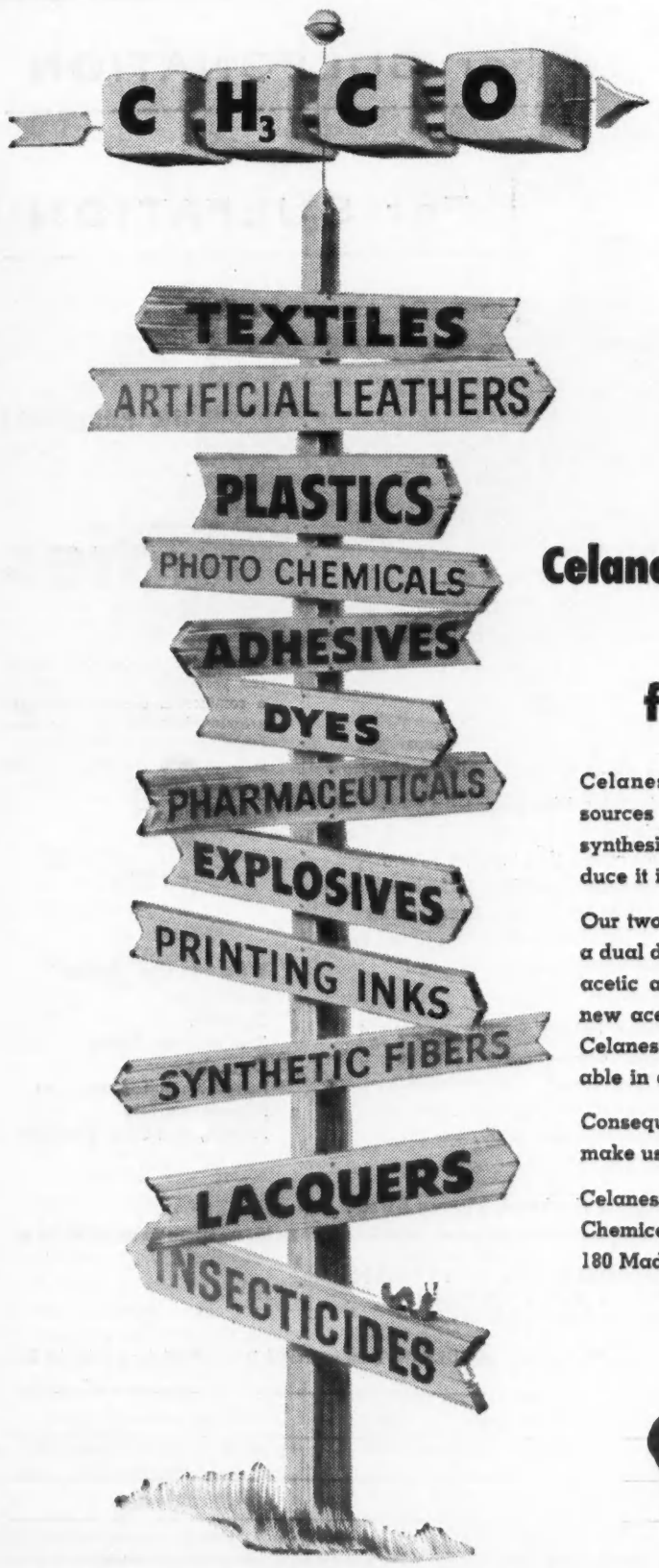
Ethyl acetate, nat., ferment., 99%, dms., c.l., frt. alld ..... lb. .13½- —
l.c.l., frt alld. ..... lb. .14½- —
tanks, frt. alld ..... lb. .11½- —
syn., 85-98% dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd. ..... lb. .14 - —
tanks, dlvd ..... lb .11 —
95-98%, dms., c.l., dlvd ... lb. .13¼- —
l.c.l., dlvd. ..... lb. .14¼- —
tanks, dlvd ..... lb. .11¼- —
99%, dms., c.l., dlvd ..... lb. .13½- —
l.c.l., dlvd. ..... lb. .14½- —
tanks dlvd ..... lb .11⅝ —
Acetoacetate, dms., c.l., dlvd .. lb. .55 - —
l.c.l., dlvd lb .56½ —
Acrylate, dms., c.l., and truck load, works lb. .44½- —
less than truckload, works lb. .45½- —
tanks, works lb. .42¾ —
Aminobenzoate, USP (see Benzocaine).
Bromide, tech., 98%, dms., c.l. lb. .41 - —
l.c.l. lb .43 —
Butyl ketone, dms., c.l., works lb. .35½- —
l.c.l., works ..... lb. .36 —
tanks, works ..... lb. .34 —
Butyrate, works ..... lb. .80 - 1.02
Carbamate (see Urethane).
Cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, works lb. .70 —
smaller lots, works lb. .72 - .80
vis., 10, 20, 50, 100, 150 cps., bgs., 2,000-lb. lots or more, works lb. .65 - .70
smaller lots, works .. lb. .67 - .81
Chloride, tech., cyl., c.l., works lb. .20 - .22
dms., c.l. same basis ..... lb. .18 - .20
tanks same basis ..... lb 10 —
USP, bots., cyls ..... lb. .22 - .24
Ethyl cinnamate, cns ..... lb. 2.71 - 3.45
Ethanolamines, mixed, dms., c.l., frt. alld., E. Miss. lb. .42½- —
l.c.l., same basis ..... lb. .43½- —
tanks, same basis ..... lb. .40½- —
Ether, absoluate, ACS, dms .... lb. .37 - —
anesthesia, UPS, hospitals, 1-lb. cns lb. .89 - —
½-lb. cns ..... lb. .97 - —
¼-lb. cns ..... lb. 1.05 - —
solvent, USP, dms., c.l., dlvd lb. .15¾- —
l.c.l., dlvd ..... lb. .16¾- —
tanks, dlvd ..... lb. .13¾- —
syn., dms., c.l., dlvd. E ..... lb. .12 - —
l.c.l., dlvd. E ..... lb. .13 - —
tanks, dlvd. E ..... lb. .10 - —
Gallate, dms., 100 to 2,000-lb. lots lb. 3.90 - 4.40
Iodide, cbys., works lb 3.30 - —
Methacrylate, dms., c.l., and less than truckload, works lb. .51½- .52
Morphine hydrochloride, USP, bots. oz.11.85 - —
Nitrite (see Nitrous ether).
Oenanthate, dms. ..... lb. 1.00 - 1.50
Oleate, dms., l.c.l., works ..... lb. No prices.
Oxalate (see Diethyl oxalate).
Silicate dist. (see Tetraethylorthosilicate).
40% available $SiO_2$, dms., dlvd. lb. .53½- —
N-Ethyl-a-naphthylamine, dms., works, lb. 1.02 - —
N-Ethyl-o-toluidine, bbls ..... lb. .88 - —
Ethylamine (see Mono, Di- or Tri-)
N-Ethylaniline, dms., c.l., frt. alld, lb. .51 - —
l.c.l., frt. alld ..... lb. .52 - —
tanks, frt. alld ..... lb. .50 - —
Ethylbenzene, 99%, dms., c.l. .... lb. .19¼- .20¼
l.c.l. ..... lb. .20½- .21¼
tanks ..... lb. .18½- —
Ethylene dichloride, dms., c.l., dlvd lb. .10¼- —
l.c.l., same basis ..... lb. .12¼- —
tanks, same basis ..... lb. .09 - —
Ethylene dichloride prices W. of Rockies 1c per lb higher.
Glycol, dms., c.l., dlvd. E .... lb. .14¾- —
l.c.l., same basis ..... lb. .15¾- —
tanks, same basis ..... lb. .13 - —
Monobutyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., dlvd. E ..... lb. .21 - —
tanks, dlvd E ..... lb. .18½- —
Monoethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., dlvd. E ..... lb. .21 - —
tanks, dlvd E ..... lb. .18½- —
Acetate, dms., c.l., dlvd. E lb. .18½- —
l.c.l., dlvd E ..... lb. .19½- —
tanks, dlvd. E ..... lb. .16½- —
Monomethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., dlvd. E ..... lb. .21 - —
tanks, dlvd. E ..... lb. .18½- —
Acetate, dms., c.l., dlvd. E lb. .28¾- —
l.c.l., dlvd. E ..... lb. .29¼- —
tanks, dlvd. E ..... lb. .27 - —
Monostearate, triple pressed, dms lb. .34 - —
Oxide, dms., c.l., dlvd. E .... lb. .21 - —
l.c.l., dlvd. E ..... lb. .24 - —
tanks, dlvd. E ..... lb. .15 - —
Trichloride (see Trichloroethane).
Ethylenediamine 85-88% dms., c.l., dlvd. E., 100% basis lb. .46 - —
l.c.l., dlvd. E., 100% basis lb. .47 - —
tanks, dlvd. E., 100% basis lb. .44 - —
Ethylvanillin, cns., 25-lb. lots ... lb. 6.75 - 7.30
smaller lots ..... lb 7.35 7.40
Eucalyptol, USP, cns., dms. ..... lb 1.40 1.50
Eugenol, USP, bots. ..... lb. 2.70 - 3.55
Euphorbia herb, bls ..... lb. .15 - .17

## F

Feldspar, 140-200 mesh, bulk, c.l., works ton.19.50 - —
Feldspar in bags $3 per ton higher.
Fennel seed, Argentine, bgs ..... lb. .10½- .11
Czech, medium, bgs ..... lb. .11 - —
Indian, light, bgs ..... lb. .11 - —
Fenugreek seed, Moroccan, bgs. lb. .06¼- .06½
Ferric acetate, liquor, 28°, bbls., c.l., works lb. .09 - —
l.c.l., works ..... lb. .09¾- —
soln., USP IX, cbys ..... lb. .16 - —
cjns. lb. .17 —
Carodylate, NF, bots lb.13.00 -14.00
Chloride, anhyd., tech., dms., c.l., works 100 lbs. 6.75 - —
l.c.l., works 100 lbs. 8.00 - —
indust., cryst., bbls., c.l., works. 100 lbs. 4.75 - 5.25
l.c.l., works ..... 100 lbs. 5.75 - 6.25
42° Be, cbys., c.l., works. 100 lbs. 7.25 - 8.25
tanks, frt. equald., 100% basis 100 lbs. 3.25 - —
USP, cryst., dms., works ... lb. .07½- .09
Citrate, gran., dms ..... lb. .86 - —
Glycerophosphate, NF, powd lb. 4.75 - 4.85
Hydrophosphite, NF, dms .... lb. 3.45 - —
Naphthenate liq., 6% Fe., dms., frt. alld lb. .25¾- —
Oxalate, gran., dms lb. .85 - .87
Phosphate, NF, soluble, gran., pearls, cs lb. .64 - .65
Pyrophosphate, NF VII, soluble, gran., pearls, dms lb. .78 - .81
Resinate, 6¾% Fe, dms., frt. alld. lb. .29 - —
Stearate, dms., c.l., frt. alld . lb. .37 - —
l.c.l., frt. alld ..... lb. .38 - .42
Sulfate, partially hydrated, bgs., c.l., works ton.31.75 -33.75
l.c.l., works ..... ton.34.75 -40.75
Ferric-ammonium citrate, brown, NF, gran., dms lb. .59 - —
green, USP XII, gran., dms lb. .59 - —
Oxalate, fine gran., dms lb. .25½- .28½
Ferric-potassium, oxalate, fine gran., dms lb. .30½- .33½
Ferric-sodium oxalate, fine gran., dms lb. .25½- .28½
Ferrous gluconate, NF, dms lb. .88 - —
Sulfate, gran., bgs., c.l., works. ton.34.50 - —
l.c.l., dlvd. Metropolitan area 100 lbs. 3.35 - 4.25
bbls., c.l., works ..... ton.10.00 - —
bulk, c.l., works ..... ton.27.00 - —
USP, cryst., bbls., dms ..... lb. .09½- .10
Fir balsam, Canada, cns ..... gal.34.00 -35.00
Oregon, bbls ..... gal. 3.00 - —
Fishliver oil (see Oil fishliver).
Fishmeal, menhaden, ground, domestic, 60% protein, bags, Balto area ton.138.70 - —
Fishscrap, menhaden, dried, 60% protein, bgs., Balto area ton.134.00 - —
Fluorspar, dom., acid grade, bulk, c.l., mine ton.60.00 - —
ceramic grade, 93-96% $CaF_2$, grd., bulk, c.l., mine ton.57.50 - —
85-92% $CaF_2$, grad., bulk, c.l., mine ton.47.00 - —
metallurgical grade, briquets, pellets, 65%, $CaF_2$, bulk, c.l., mine ton.34.00 - —
lump, 59-65% effective $CaF_2$, bulk, c.l., mine ton.40.00 - —
washed gravel, 59-60% effective, $CaF_2$, bulk, c.l., mine ton.40.00 - —
60-65% effective $CaF_2$, bulk, c.l., mine ton.40.00 -41.00
65-70% effective $CaF_2$, bulk, c.l., mine ton.42.00 - —
70% or better, effective $CaF_2$, bulk, c.l., mine ton.43.00 - —
Formaldehyde, NF, (inhibited), dms., c.l., Zone 1, dlvd lb. .062 - —
Zone 2 ..... lb. .065 - —
l.c.l., dlvd ..... lb. .069 - —
tanks, Zone 1, dlvd ..... lb. .0375- —
Zone 2, dlvd ..... lb. .0420- —
methanol-free (uninhibited), tanks, Zone 1, dlvd lb. .0345- —
Zone 2, dlvd ..... lb. .0395- —
Fleaseed (see Psyllium seed).
Fringetree bark, bls ..... lb. .60 - .64
Fuller's earth, bgs., c.l., Ill. mines. ton.19.00 - —
powd., insecticide grade, dried, bgs., c.l., Ga. or Fla. mines ton.17.50 - —
calcined, bgs., c.l., same basis ton.20.00- .21.75
oil-bleaching grade, 100-mesh, bgs., c.l., same basis ton.16.50 -17.00
200-mesh, bgs., c.l., same basis ton.17.50 -18.00
spent, bgs., c.l., shipt. point ton. 4.50 - 5.00
Furfural, dms., c.l., works ..... lb. .13 - —
l.c.l., works ..... lb. .14 - —
tanks, dlvd. E ..... lb. .12 - —
dlvd. W ..... lb. .13 - —
Fusel oil, refd., dms., c.l., dlvd. lb. .17½- —
l.c.l., dlvd. ..... lb. .18½- —
tanks, dlvd ..... lb. .15 - 15½
Fustic extract, cryst., No. 1, bbls., l.c.l. lb. .47½- —
No. 2, bbls., l.c.l. ..... lb. .45½- —
No. 3, bbls l.c.l ..... lb. .43½- —
liq., No. 1, bbls., l.c.l. ..... lb. .22½- —
No. 2, bbls. l.c.l ..... lb. .21½- —
No. 3, bbls., l.c.l ..... lb. .19 - —
solid, No. 1, bxs., l.c.l. ..... lb. .45 - —

## G

G salt, 100% basis, bbls., frt alld lb. .73 - —
Gammapicoline (see g-Picoline).
Gasoline, tanks, refy., ex tax, Arkansas, 84 octane gal. .11¼- —
Group 3, 84 octane ..... gal. .1073- .1137½
Gulf coast, 83 octane .... gal. .116 - —
N. Y. Harbor, 86 octane gal. .1245- —
Penn. western US motor 86 octane gal. .1375- .1418
nat., group 3, 26-80 octane gal. .04½- —
Gelatin, edible, pure (pork skin), 75 Bloom test, bbl., c.l. lb. .57 - —
150 Bloom test, bbl., c.l. lb. .68 - —
200 Bloom test, bbl., c.l. lb. .74 - —
225 Bloom test, bbl., c.l. lb. .77 - —
275 Bloom test, bbl., c.l. lb. .84 - —
Gelsemium root, bls ..... lb. .23 - .24
Gentian root, bls ..... lb. .17 - .20
grd., bbls., bxs ..... lb. .22 - .23
powd., bbls., bxs ..... lb. .23 - .24
Geraniol, extra, cns., dms ..... lb. 1.90 - 2.20
standard, cns., dms ..... lb. .60 - 1.00
Geranyl acetate, cns ..... lb. 1.45 - 2.20
Ginger, oleoresin, NF, from African root, bots. lb. 4.00 - 7.75
from Jamaican root, bls .... lb. 6.00 -10.25
Root, African, bls ..... lb. .34 - —
Jamaica, No. 1, bgs. ..... lb. .45 - .50
No 2, bgs. ..... lb. .36 - —
No. 3, bgs. ..... lb. .34 - —
Rhattoon, bgs ..... lb. No prices.
Nigerian, split, bgs ..... lb. .28 - —
Glauber's salt, anhyd. see Sodium sulfate).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ACETIC ACID • ACETALDEHYDE • ACETIC ANHYDRIDE • ACETONE • n-BUTYL ACETATE • n-PROPYL ACETATE

Glue, bone, extracted, 86 jellygrams, bgs., c.l., dlvd lb. .17 - —
104 jellygrams, same basis lb. .19 - —
131 jellygrams, same basis lb. .21 - —
164 jellygrams, same basis lb. .23 - —
191 jellygrams, same basis lb. .25 - —
222 jellygrams, same basis lb. .26 - —
packers' 40 jellygrams, bgs., c.l., dlvd lb. .15½- —
65 jellygrams, same basis lb. .16½- —
86 jellygrams, same basis lb. .17 - —
115 jellygrams, same basis lb. .17½- —
135 jellygrams, same basis lb. .18½- —
164 jellygrams, same basis lb. .19½- —
renderers' 100 jellygrams, bgs., c.l., dlvd lb. .15 - —

Bone glue l.c.l. prices 1c. higher.

Hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .18 - —
95-121, bgs., c.l., dlvd lb. .20 - —
122-149, bgs., c.l., dlvd lb. .22 - —
150-177, bgs., c.l., dlvd lb. .24 - —
178-206 bgs., c.l., dlvd lb. .26 - —
207-236, bgs., c.l., dlvd lb. .28 - —
237-266, bgs., c.l., dlvd lb. .30 - —
267-298, bgs., c.l., dlvd lb. .32 - —
299-330, bgs., c.l., dlvd lb. .34 - —
331-362, bgs., c.l., dlvd lb. .36 - —
363-394, bgs., c.l., dlvd lb. .37 - —
395-427 bgs., c.l., dlvd lb. .38 - —
428-460, bgs., c.l., dlvd lb. .39 - —
461-494, bgs., c.l., dlvd lb. .40 - —
495-529, bgs., c.l., dlvd lb. .41 - .42

Hide glue l.c.l prices 1c. higher.

Glycerine, nat., crude, saponification, 88%, to refineries, tanks, works lb. .23 Nom.
soaplye, 80%, tanks, works lb .21 Nom.
refd., BP, 98%, dms., c.l., dlvd lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
dynamite, dms., c.l., dlvd lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
high gravity, dms., c.l., dlvd, lb. .30½- —
l.c.l., dlvd lb. .30 - —
tanks, dlvd lb. .29 - —
USP, CP, 95%, dms., c.l., dlvd, lb. .29½- —
l.c.l., dlvd lb. .30 - —
tanks, dlvd lb. .29 - —
yellow, distilled, dms., c.l., dlvd. lb. .30 - —
l.c.l., dlvd lb. .30½- —
syn., dms., c.l., dlvd lb. .30½- —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —

Glycine (see Acid aminoacetic).

Glycerol (see Glycerine).

Glyoxal, 30%, dms., c.l., works lb. .18½- —
l.c.l., works lb. .19 - —
tanks, works lb. .18 - —

Gold chloride, acid-brown, bots oz.22.50 -23.00
acid-yellow, bots oz.20.00 -20.50

Golden seal root, NF, tested, bls. lb. 2.25 - 2.50
powd., bxs lb. 2.75 - 3.25

Graphite, amorph., powd., bgs., fib. dms., ex whse lb. .06 - .09½
crystalline, 88-90%, powd., bgs., fib. dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
Graphite, flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
No. 2, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31

Grease, brown, tanks, dlvd lb. .05¾- —
house, tanks, dlvd lb. .06¾- —
white, choice, not all hog, tanks, dlvd lb. .08¾- —
yellow, tanks, dlvd lb. .06½- —

Green, brilliant, thioflavin, toner, molybdated, PMA, kgs, works. lb. 5.10 - —
tungstated, PTMA, kgs., works lb. 6.00 - —

Chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis lb. .38 - —
16-30%, bbls., same basis lb. .39 - —
31-45%, bbls., same basis. lb. .40 - —
45-49%, bbls., same basis. lb. .43 - —
50%, bbls., same basis lb. .48 - —
reduced color, 25%, bbls., same basis lb. .19 - —

Chrome green prices are ½c. higher, dlvd., at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Chromium oxide, hydrated, bbls., dms., c.l., frt. alld lb. 1.00 - 1.10
pure, bgs., c.l., frt. alld lb. .39¼- —
l.c.l., same basis lb. .39¾- —

Dyes (see Dyes, coaltar).

Malachite, straight, PTMA, bbls., works lb. 4.60 - —

Paris (see Paris green).

Phthalocyanine toner, bbls., works. lb. 3.95 - —
resinated, bbls lb. 3.50 - —
water dispersable, bbls lb. 1.71 - —
Pigment B, kegs lb. 1.35 - —
paste, kegs lb. .38 - —

Grindelia robusta herb, bls lb. .38 - .40

Guaiacol, NF, cryst., dms., tins lb. 2.10 - 2.15
liq., cbys., dms lb. 2.30 - 2.40
Carbonate, NF VII, dms lb. 3.40 - 3.45

Gum, aloe (see Aloe).
Arabic, amber, sorts, bgs lb. .20 - .21
powd., USP, bbls lb. .26 - .28
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs lb. .38 - .42
Camphor (see C).
Cellulose, high vis., bgs., 23,000-lb. lots or more, works, frt. alld. lb. .55 - —
smaller lots, same basis lb. .57 - —
Copal, Congo, No. 1, bgs lb. .21 - .23
No. 2, bgs lb. .18½- .20
No. 3, bgs lb. .16½- .18
Manila, C, bgs lb. .39 - .42
CBB, bgs lb. .27 - .29
DBB, bgs lb. .27 - .28
DK, bgs lb. .20 - .22
dust, bgs lb. .11 - .12½
MA, soft, bgs lb. .20½- .21½
WS, bgs lb. .32 - .36
Philippine, pale, chips, bgs lb. .24 - .25
nubs, bgs lb. .30 - .32
seeds, bgs lb. .17 - .18½
sorts, bgs lb. .20½- .22½
Pontianak, chips, bgs lb. .21 - .23
nubs, bgs lb. .38 - .40
Dammar, Batavia, A/E, cs lb. .27 - .29
dust, bgs lb. .16½- .17½
E, bgs lb. .20 - .22
East India, batu, bold, bgs lb. .14 - .15½
nubs and chips, bgs lb. .03½- .09½
black, bold, bgs lb. .14 - .16
unscraped, bgs lb. .11 - .13
nubs and chips, bgs lb. .11 - .13
pale, chips, bgs lb. .13 - .14
nubs, bgs lb. .18 - .20

Gum, dammar, Siam, cs lb. .35 - .37
Singapore, No. 1, bgs lb. .40 - .42
No. 2, bbls lb. .27 - .29
No. 3, bbls lb. No prices.
dust, bgs lb. .16½- .17
seeds, bgs lb. .20 - .22
Ester, gum-rosin type, dms., c.l., dlvd, fill., Ind., Ky., Mich., Mid-Atl. States, N.E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va lb. .15½- —
wood-rosin type, dms., c.l., same basis lb. .15 - —
Karaya, NF, powd., No. 1, bbls. lb. .38 - .42
No. 2, bbls lb. .32 - .36
No. 3, bbls lb. .27 - .30
Locust bean, powd., bgs lb. .31 - .33
Myrrh, cs lb. .38 - .40
Opium (see O).
Olibanum siftings, cs lb. .15 - .20
tears, cs lb. .27 .30
Rosin (see Naval Stores, Protective Coatings Market).
Sterculia (see Gum Karaya).
Tragacanth, No. 1, ribbons, cs lb. 2.95 - 3.00
No. 2, cs lb. 2.45 - 2.50
No. 3, cs lb. 1.75 - 1.80
powdered, USP, bbls lb. 1.25 - 1.35
Gypsum, plaster of paris, 100-lb. paper, bgs., trucks, dlvd. N. Y. C ton.20.30 - —
terra alba, dom., same basis ton.19.00 - —
works, N. Y. C. ton.16.00 - —
imp. English, 100-lb. paper bags, ex dock, N. Y. C. ton 55.00 - —
ex warehouse ton.60.00 -62.00

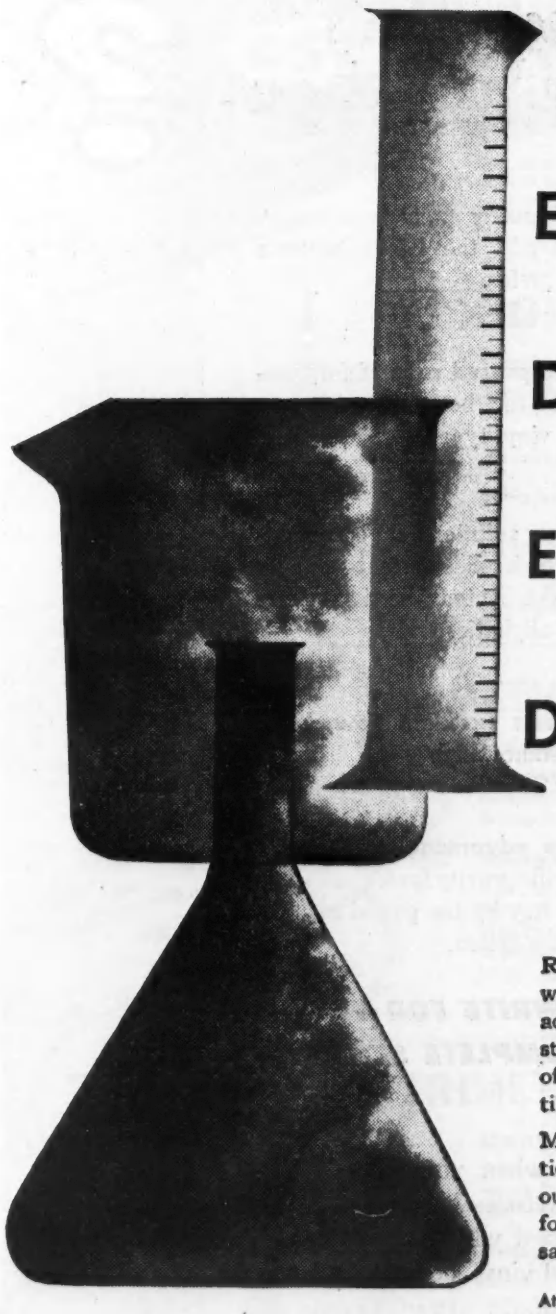
## H

Hawthorn berries, bgs. lb. .28 - .32
Heliotropin, cryst., cns lb. 3.50 - 4.25
Hellebore root dom green, bls lb. .55 - .65
Helonias root, bls lb. 1.75 - 2.00
Hematine extract, cryst., No. 1, bbls., l.c.l. lb. .47 - —
No 2, bbls. l.c.l. lb. .43 - —
No 3, bbls. l.c.l. lb. .41 - —
No 4, bbls., l.c.l. lb. .39 - —
No 5, bbls., l.c.l. lb. .37 - —
paste No 1 bbls. l.c.l. lb. .20½- —
Henbane leaves, bls lb. .35 - .40
Heptane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .14¾- —
Borger, Tex gal. .14¾- —
Hesperidin methylphalcone, bots., works lb 50 00 - —
Hexachlorophene, dms lb. 2.60 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 1,000-lb. lots or more, Perth Amboy or N.Y.C. lb. .232 - —
smaller lots, same basis lb. .242 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .239 - —
smaller lots, same basis lb. .249 - —
USP, dms., 500-lb. lots or more, same basis lb. .40½- —
smaller lots, same basis lb. .41½- —
Hexamine (see Hexamethylenetetramine).
Hexane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .15½- —
Borger, Tex gal. .15½- —

### Glue—Hydrofuramide

1-Hexanol, dms., c.l., works lb. .34½- —
l.c.l., works lb. .35 - —
tanks, works lb .33 - —
Hexyl cinnamic aldehyde, dms lb. 4.50 - 7.50
Salicylate, dms lb. 1.75 - —
Hexylene, glycol, dms., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
tanks, dlvd lb. .14 - —
n-Hexyl methacrylate, dms., less than truckload, works lb. .71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd lb.14 00 - —
smaller lots, dlvd lb 14.50 - —
Histamine diphosphate, USP, bots. kilo 454.00 - —
l-Histidine hydrochloride, NF, fib. dms., 50-kilo lots, works. kilo 80.00 -85 00
1-5 kilo lots, works kilo.90.00 -95.00
Homatropine hydrobromide, USP bots oz 9.35 -10.60
Methylbromide, USP, bots oz. 8.50 - 9.00
Hoofmeal, 17-18% ammoniz., bulk, c.l., Chicago unit-ton. 7.00 - —
Horehound herb, bls lb. .16 - .19
Hydrastine bots oz.29 50 -31 00
Hydrochloride, NF, bots oz.29.50 -31 00
Sulfate, bots oz.25.00 -27.00
Hydrastinine 10 grain bots bot 1.95 —
Hydrastis (see Goldenseal).
Hydrazine, free base, ret. dms., Lake Charles, La lb. 3.00 - 3.30
Hydrate, 100%, ret. dms., Lake Charles, La lb. 1.75 - 1.95
85%, ret. dms., same basis lb. 1.35 1.55
Hydrofuramide, dms., fib. ctns., works lb .30 - .40


# USING SOLVENTS?...



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Diethylene Glycol Monomethyl Ether

Ethylene Glycol Monoethyl Ether

Diethylene Glycol Monoethyl Ether

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### Hydrogen Chloride—Lime, Spray

| | | | |
|---|---|---|---|
| Hydrogen chloride, anhyd., 50-lb. cyls., c.l., works | lb. | .45 | — |
| l.c.l., works | lb. | .55 | .60 |
| Fluoride, anhyd., cyls., dlvd. E | lb. | .30½ | .32½ |
| cyls., dlvd., W | lb. | .39 | — |
| tanks, works | lb. | .21 | — |
| Peroxide USI nbls. dlvd | lb | .03¾ | .05 |
| 35% cbys., dlvd | lb. | .228 | — |
| dms., c.l., dlvd | lb. | .202 | — |
| l.c.l., dlvd. | lb. | .211 | — |
| tanks, dlvd. | lb. | .1800 | — |
| Hydroquinone photo grade bbls. dms | lb. | .88 | 1.00 |
| tech., dms., c.l., dlvd | lb. | .77½ | — |
| l.c.l., same basis | lb. | .79½ | — |
| Hydroxycitronellal, cns | lb. | 5.10 | 6.00 |
| Boscine salts (see Scopolamine.) | | | |
| Hyoscyamine, bots | oz. | 15.75 | 16.00 |
| Hydrobromide, bots | oz. | 11.00 | 12.00 |
| Sulfate, bots | oz. | 10.50 | 11.50 |
| Hypernic extract, cryst., No. 2, bbls., l.c.l. | lb. | .52 | — |
| liq., No. 1, bbls., l.c.l. | lb. | .35 | — |
| No. 2, bbls., l.c.l | lb. | .27 | — |

### I

| | | | |
|---|---|---|---|
| Ichthammol, NF, dms | lb. | .60 | .75 |
| Indian red (see Red, Indian). | | | |
| Indigo (see Dyes, coaltar 1171 Indigo synthetic) | | | |
| Indole, CP, bots | lb | 17.00 | 21.00 |
| Inositol, bots. dlvd | lb | 5.00 | — |
| dms., dlvd | lb | 4.50 | 4.75 |
| Insect flowers (see Pyrethrum). | | | |
| Iodine, crude, kgs | lb. | 1.15 | — |
| resub, USP, kgs, dms | lb. | 2.30 | 2.32 |
| Iodochlorohydroxyquinolin, USP, dms | lb. | 5.90 | — |
| Iodoform, NF dms, kgs | lb | 4.90 | 5.00 |
| a-Ionone, cns | lb. | 3.85 | 8.25 |
| b-Ionone, cns | lb. | 4.30 | 11.25 |
| Methyl (see under M) | | | |
| Ipecac, root, bgs | lb. | 8.00 | — |
| powd., bbls., bxs | lb. | 8.50 | — |
| Irish moss, bleached, prime, bls | lb. | .30 | .35 |
| Iron Compounds (see Ferric or Ferrous). | | | |
| Isoborneol, cns | lb. | 1.25 | 1.70 |
| Isobornyl acetate, cns | lb. | .62 | .95 |
| formate, dms. | lb | .80 | — |
| Propionate, dms | lb. | 1.15 | 1.45 |
| Isobutyl acetate, perfume grade, cns | lb. | .75 | 1.00 |
| solvent grade dms, c.l. dlvd E. of Rockies | lb. | .13¼ | — |
| l.c.l., same basis | lb. | .14¼ | — |
| tanks, same basis | lb. | .11¼ | — |
| Isobutyraldehyde, dms., dlvd | lb. | .50 | — |
| Isoeugenol, cns | lb. | 3.45 | 4.25 |
| Isoniazid, powd., bulk, 25-kilo lots or more | kilo. | 23.00 | 25.50 |
| smaller lots | kilo. | 24.00 | 26.00 |
| Isopentane, coml. grade, tanks, f.o.b. Tex. refy | gal. | .15½ | — |
| Isonicotinic acid hydrazide (see Isoniazid). | | | |
| Isophorone, dms., c.l., works | lb. | .24¼ | — |
| l.c.l., works | lb. | .24¾ | — |
| tanks, works | lb | .22½ | — |
| Isopropanol (see Alcohol, Isopropyl). | | | |
| Isopropyl acetate, dms., c.l., dvld. | lb. | .12 | — |
| l.c.l., same basis | lb. | .13 | — |
| tanks, same basis | lb. | .10 | — |
| Alcohol (see Alcohol, Isopropyl). | | | |
| Benzene (see Cumene). | | | |
| Ether, dms., c.l., dlvd | lb. | .07 | — |
| l.c.l., dlvd | lb. | .08 | — |
| tanks, dlvd | lb | .05 | — |
| Isopropylamine (see Mono, Di, or Tri-). | | | |
| Isoquinoline, dms., works | lb. | .65 | 1.25 |

### J

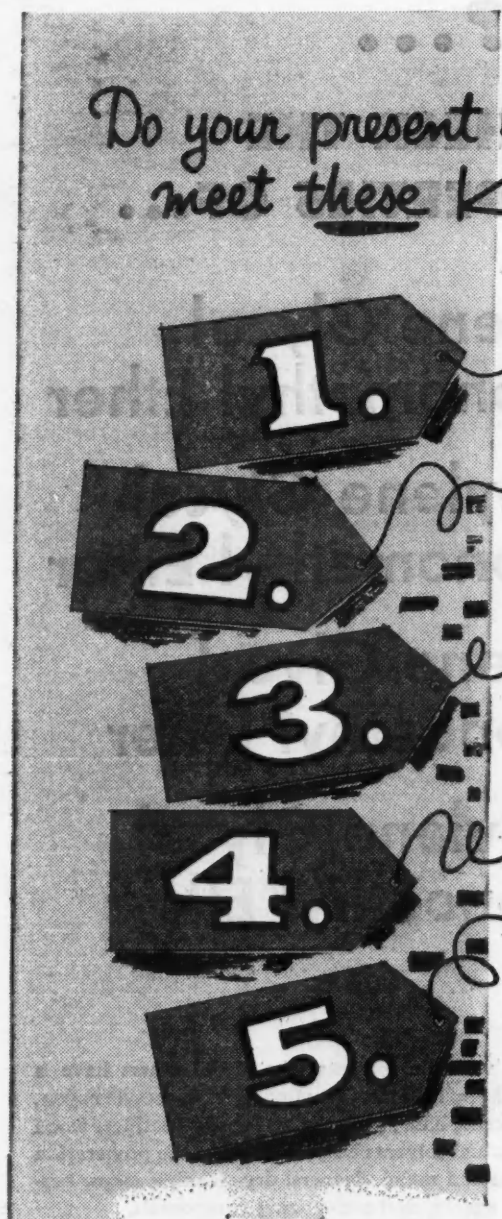
| | | | |
|---|---|---|---|
| Jalap root, NF, bls | lb. | .38 | .55 |
| powd., bbls., bxs | lb. | .49 | .66 |
| Juniper berries, bgs | lb. | .16 | .18 |
| Tar, NF, dms | lb. | .42 | .60 |

### K

| | | | |
|---|---|---|---|
| Kaolin (see also Clay China). | | | |
| NF, powd., fib. dms | lb. | .08 | .16½ |
| colloidal, fib. dms | lb. | .15 | .15½ |
| Kerosene, tanks, refy., Ark. 42-44 specific gravity, w.w | gal. | .095 | — |
| California, 40-43 s.g., w.w | gal. | .138 | .148 |
| Gulf ports, 41-43 s.g., w.w. | gal. | .09¼ | .09¾ |
| N. Y. Harbor, 43-44 s.g., w.w. | gal. | .102 | .1035 |
| Okla.Tex., 42-44 s.g., w.w | gal. | .09½ | .10 |
| Penn., Western, 45 s.g., w.w. | gal. | .103 | .12 |
| Kola nuts, bgs | lb. | .12 | — |

### L

| | | | |
|---|---|---|---|
| Lactose, crude, bgs., c.l., works | lb. | .15 | — |
| edible, fib. dms., 30 000-lb. lots, works | lb. | .22 | — |
| 2.000-lb. lots, works | lb. | .22¾ | — |
| 200-1,800-lb. lots, works | lb. | .23¼ | — |
| Edible lactose in bgs., 1c. lower. | | | |
| USP, fib. dms., 30,000-lb. lots, works | lb. | .24 | — |
| 2.000-lb. lots, works | lb. | .24¾ | — |
| 200-1,800-lb. lots, works | lb. | .25¼ | — |
| USP lactose in bgs., 1c. lower. | | | |
| Lady's slipper root, bls | lb. | 1.70 | 1.75 |
| Lanolin, cosmetic, dms., works | lb. | .33 | .36 |
| USP, anhyd., dms., works | lb. | .30 | .33 |
| hydrous, dms., works | lb. | .29 | .32 |
| Lard, cash, dms., Chicago | lb. | .18¼ | — |
| Larkspur seed, bgs | lb. | .20 | .23 |
| Lauryl chloride, dist., dms. c.l., works, frt. equald | lb. | .74 | — |
| l.c.l., same basis | lb. | .75 | — |
| Methacrylate, normal, dms., c.l. or truckload | lb. | .65½ | — |
| Lavender flowers, medium, bls. | lb. | .55 | .60 |
| ord., bls | lb. | .16 | .20 |
| select, bls | lb. | .90 | — |
| Lead acetate, white, cryst., bbls. | lb. | .23 | — |
| gran, bbls | lb. | .22 | — |
| powd., bbls | lb. | .23 | — |
| NF, cryst., gran., powd | lb. | .31 | .32 |
| Arsenate, acid powder, dealers, 3-lb. bgs, or larger, c.l., frt. alld. on 96 lbs. or more | lb. | .27½ | — |
| l.c.l., frt alld | lb. | .28½ | — |
| 1-lb bgs., c.a. | lb. | .41½ | — |
| l.c.l. | lb. | .42½ | — |
| Blue, basic sulfate, bbls., c.l., shipt. point, frt. alld | lb. | .15¾ | — |
| l.c.l., same basis | lb. | .16¾ | — |
| Carbonate (see Lead, white). | | | |
| Chloride, dms | lb. | .45 | — |
| Iodide, NF, V jars | lb. | 3.82 | — |
| Linoleate, fused, 26%% Pb, dms. | lb. | .33 | — |
| Metal, pigs, prime, N. Y. | lb. | .15 | — |
| St. Louis | lb. | .1480 | — |
| Metallic paste, dms., 20,000-40,000-lb. lots, works | lb. | .33¾ | — |
| 10,000-20,000-lb. lots same basis | lb. | .34¾ | — |
| 2,000-10,000-lb. lots, same basis | lb. | .35¼ | — |
| 200-2,000-lb. lots, same basis. | lb. | .35¾ | — |
| Prices ex whse. Jersey City, N. J., 4½c. per lb. higher. | | | |
| Monosilicate, bgs., c.l., works, frt. equald | lb. | .1580 | — |
| l.c.l., same basis | lb. | .1630 | — |
| Naphthenate, liq., 16% Pb, dms., dlvd | lb. | .17¼ | — |
| 24% Pb., dms., dlvd | lb. | .23¾ | — |
| solid, 37% Pb., dms., dlvd | lb. | .31¼ | — |
| Nitrate, bbls | lb. | .22¼ | — |
| Orthosilicate gel., 50% PbO, dms., works | lb. | .32¾ | — |
| 60% PbO, dms., works | lb. | .31¾ | — |
| Peroxide, powd., tech., bbls | lb. | .38¾ | .40¼ |
| Phthalate, dibasic, dms., works | lb. | .41 | — |
| Red, 95% $Pb_3O_4$, or less, bbls., c.l., works, frt. equald | lb. | .17½ | — |
| l.c.l., same basis | lb. | .18 | — |
| 97% $Pb_3O_4$, bbls., c.l., same basis | lb. | .17¾ | — |
| l.c.l., same basis | lb. | .18 | — |
| 98% $Pb_3O_4$, bbls., c.l., same basis | lb. | .18 | — |
| l.c.l., same basis | lb. | .18½ | — |
| Resinate, precip., 23% Pb, dms., dlvd | lb. | .31 | — |
| Salicylate, normal, dms., works | lb. | .46 | — |
| Sulfate (see Lead, blue, basic sulfate; Lead, white, basic sulfate). | | | |
| Tallate, liquid, 16% Pb, dms. | lb. | .15¼ | — |
| 24% Pb, dms | lb. | .20¼ | .20½ |
| White, basic carbonate, bgs., c.l., shipt. point, frt. alld | lb. | .17½ | — |
| l.c.l., same basis | lb. | .18½ | — |
| basic silicate, bgs., c.l., shipt. point, frt. alld | lb. | .16 | .19¼ |
| l.c.l., same basis | lb. | .17 | .20¼ |
| basic sulfate, bgs., c.l., shipt. point, frt. alld | lb. | .15¾ | — |
| l.c.l., same basis | lb. | .16¾ | — |
| Lecithin edible, tech., bleached, non-ret, dms., c.l., works | lb. | .15 | .17 |
| l.c.l., same basis | lb. | .15½ | .17½ |
| unbleached, non-ret., dms., c.l., same basis | lb. | .13 | .15 |
| l.c.l., same basis | lb. | .14½ | .16½ |
| dl-Leucine, dms., works | lb. | 12.25 | 15.00 |
| Licorice root, whole, bbls. | lb. | .08 | .12 |
| gran., bbls. | lb. | .12 | .17 |
| powd., bbls. | lb. | .10 | .15 |
| Lignosulfonate, 70% tannin, bgs., c.l., works | lb. | .06½ | — |
| l.c.l., works | lb. | .06¾ | — |
| Lime, agricultural, bulk, works | ton. | 14.50 | — |
| Chemical (quicklime) lump, pebble, bulk, Adams, Mass. | ton. | 12.50 | — |
| Annville, Pa | ton. | 11.50 | — |
| Austin, Texas | ton. | 9.50 | — |
| Bellefonte, Pa. | ton. | 11.50 | — |
| Buffalo, N. Y. | ton. | 14.00 | — |
| Cedar Hollow, Pa. | ton. | 11.50 | — |
| Duluth, Minn. | ton. | 12.50 | — |
| El Paso, Texas | ton. | 14.00 | — |
| Farnams, Mass. | ton. | 14.00 | — |
| Gibsonburg, Ohio | ton. | 12.50 | — |
| Hannibal, Mo. | ton. | 10.00 | — |
| Keystone, Ala | ton. | 10.25 | — |
| Kimballton, Va. | ton. | 10.25 | — |
| Knoxville, Tenn. | ton. | 10.50 | — |
| Lee, Mass. | ton. | 12.50 | — |
| Lewisburg, Ohio | ton. | 10.00 | — |
| Limedale, Ark. | ton. | 10.00 | — |
| Los Angeles, Cal. | ton. | 25.10 | 26.84 |
| Marble Cliff, Ohio | ton. | 10.00 | — |
| Martinsburg, W. Va. | ton. | 11.00 | — |
| Mosher, Mo. | ton. | 10.75 | — |
| Nelson, Ariz. | ton. | 14.50 | 23.65 |
| Quincy, Ill. | ton. | 10.00 | 13.00 |
| Reddick, Fla. | ton. | 13.50 | — |
| Scotrock, Ala. | ton. | 10.25 | — |
| Springfield, Mo. | ton. | 12.25 | — |
| Winooski, Vt. | ton. | 15.50 | — |
| Woodville, Ohio | ton. | 11.50 | — |
| York, Pa. | ton. | 15.50 | — |
| Hydrated, paper bgs., Adams, Mass. | ton. | 15.50 | — |
| Annville, Pa | ton. | 14.50 | — |
| Austin, Texas | ton. | 13.00 | — |
| Bellefonte, Pa | ton. | 14.50 | — |
| Buffalo, N. Y. | ton. | 16.00 | — |
| Cedar Hollow, Pa. | ton. | 14.50 | — |
| Chicago, Ill. | ton. | 15.00 | — |
| Duluth, Minn. | ton. | 14.00 | — |
| El Paso, Texas | ton. | 17.50 | — |
| Engle, W. Va. | ton. | 14.50 | — |
| Farnams, Mass. | ton. | 14.00 | — |
| Gibsonburg, Ohio | ton. | 16.50 | — |
| Hannibal, Mo. | ton. | 12.00 | — |
| Keystone, Ala. | ton. | 13.50 | — |
| Kimballton, Va. | ton. | 13.50 | — |
| Knoxville, Tenn. | ton. | 13.00 | — |
| Lee, Mass. | ton. | 15.50 | — |
| Lewisburg, Ohio | ton. | 14.00 | — |
| Limedale, Ark. | ton. | 12.00 | — |
| Marble Cliff, Ohio | ton. | 13.50 | — |
| McNeil, Pa. | ton. | 13.00 | — |
| Menominee, Mich. | ton. | 14.00 | — |
| Mosher, Mo. | ton. | 13.00 | — |
| North Tazewell, Va. | ton. | 12.75 | — |
| Quincy, Ill. | ton. | 10.00 | 12.00 |
| Reddick, Fla. | ton. | 16.00 | — |
| Scotrock, Ala. | ton. | 13.50 | — |
| Springfield, Mo. | ton. | 12.25 | — |
| Winooski, Vt. | ton. | 15.50 | — |
| Woodville, Ohio | ton. | 14.50 | — |
| York, Pa. | ton. | 14.50 | — |
| Spray, paper bgs., Adams, Mass. | ton. | 17.00 | — |
| Annville, Pa | ton. | 17.00 | — |
| Austin, Texas | ton. | 13.00 | — |
| Bellefonte, Pa. | ton. | 17.50 | — |
| Carey, Ohio | ton. | 11.00 | — |
| Duluth, Minn. | ton. | 15.00 | — |
| Engle, W. Va. | ton. | 14.50 | — |
| Farnams, Mass. | ton. | 14.00 | — |



Do your present lacquer solvents meet these Ketone advantages...?
1.
2.
3.
4.
5.
High purity . . . at no extra cost. You add the latent solvents you prefer.
Unsurpassed ease of formulation—for both nitrocellulose and vinyl types.
Gives solutions of exceptionally high solids content—or high diluent content, both aromatic and aliphatic.
Imparts excellent flow, blush resistance, high gloss.
Price advantage, too! Lower specific gravity favors you when you buy by the pound and sell by the gallon.
WRITE FOR THE COMPLETE STORY!

These five important advantages are yours when you use Shell Ketones. Lacquer solvent systems based on Ketones have so many inherent advantages they have become standard with the nation's foremost formulators of both nitrocellulose and vinyl lacquers.

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Lime, spray, paper bgs., Gibsonburg, Ohio ton 16.50 - —
Keystone, Ala. ton 13.50 - —
Kimballton, Va. ton 13.50 - —
Lee, Mass. ton 17.00 - —
Lewisburg, Ohio ton 16.00 - —
Marble Cliff, Ohio ton 16.00 - —
McNeil, Tex. ton 16.00 - —
Menominee, Mich. ton 14.00 - —
Mosher, mo. ton 13.00 - —
North Tazewell, Va. ton 12.75 - —
Reddick, Fla. ton 16.00 - —
Rockland, Me. ton 10.00 - —
Springfield, Mo. ton 12.25 - —
Scotrock, Ala. ton 13.50 - —
Winooski, Vt. ton 17.00 - —
Woodville, Ohio ton 16.50 - —
York, Pa. ton 15.50 - —

Lime salts (see Calcium).

Lime-ammonia nitrogen 20.5% N (see Ammonium nitrate with dolomite).

Limestone, grd., bgs., works ton 3.50 - 4.00

Linalool, ex bois de rose oil, dms. lb 5.95 - 6.70
ex lignaloe wood oil, dms. lb 5.30 - 7.10

Linalyl acetate, ex bois de rose, 90-92%, dms lb 5.35 - 6.25
96-98%, dms lb 6.75 - 7.15
ex petitgrain, bots. lb 3.90 - 5.25

Lindane, 25% formulation, dealers, dms., works lb 1.58 - —
99%, tech., dealers, dms., dlvd., lb 3.10 - —

Linden flowers with leaves, bls lb .34 - .35
without leaves, bls lb .40 - .41

Linseed meal, expeller 32-34% bulk, Midwest, mills ton 69.50 Nom.
extracted, 36% bulk, same basis, ton 63.00 -64.00

Litharge, coml., powd., bbls., c.l., works, frt. equald lb .16½- —
l.c.l., same basis lb .17 - —

Lithium benzoate, dms lb 1.65 1.67
Bromide, NF, dms., works, frt. equald lb 2.16 - —
Carbonate, tech., c.l., dlvd lb 1.00 - —
l.c.l., same basis lb 1.05 - 1.20
NF, c.l., dlvd lb 1.45 - —
l.c.l., dms lb 1.50 - 1.65
Chloride, CP, anhyd., ton lots lb 1.45 - —
Citrate, NF, bbls., dms., kgs lb 1.60 - 1.64
Fluoride, bbls., 10,000-lb. lots lb 2.15 - —
ton lots lb 2.20 - —
less ton lots lb 2.25 - —
Hydride, powd., dms., works lb 12.00 -14.00
Hydroxide, monohydrate, dms., ton lots lb 1.10 - —
Nitrate, dms., 100-lb. lots lb 2.25 - —
Salicylate, dms lb 1.60 - 1.70
Sulfate, dms., 100-lb. lots lb 1.45 - —

Lithopone, ord., bgs., c.l., dlvd lb .07½- —
l.c.l., dlvd lb .08¼- .08½
titanated (high-strength), bgs., c.l., dlvd lb .10 - —
l.c.l., dlvd lb .11 - —

Litnopone prices, Pacific Coast, 1c. per lb. higher.

Lobelia herb, bls lb 1.25 Nom.
Lobeline sulfate, bots., works oz 29.50 -33.50
Logwood extract, cryst., No. 1, bbls., l.c.l. lb .41 - —
No. 2, bbls., l.c.l. lb .39 - —
liq., No. 1, bbls., l.c.l. lb .20 - —
No. 2, bbls., l.c.l. lb .19 - —
No. 3, bbls., l.c.l. lb .18½- —
solid, No. 1, l.c.l. lb .35 - —
Lycopodium, cs lb 1.50 - —
di-Lysine hydrochloride, bots. kilo 140.00 -150.00

## M

Mace, Siauw, No. 1, bls. lb 1.30 - —
West Indian, No. 1, bls. lb 1.89 - —
Magnesia, calcined, tech., ctns., works lb .32 - .34¾
syn. rubber grade, light, bgs., works lb .23 - .25
extra light, works lb .31 - —
USP, light, ctns lb .34 - .36
heavy, bbls lb .36 - .38
Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt. equald ton 82.50 - —
dead-burnt, standard grain, bulk, c.l., Chewalah, Wash. ton 38.00 - —
Magnesium bromide, jars lb .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb .10½- —
l.c.l., frt. alld lb .11 - .11¼
USP, bgs., c.l., frt. equald lb .12½- —
l.c.l., frt. alld lb .13½- —

Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties and to Phila. county, Pa. Frt. equald with N. Y. C. on all other destinations.

Chloride, anhyd., 92% flake or pebble, dms., c.l., works lb .12¾- —
l.c.l., same basis lb .14 - .15
hydrous, 99% flake, bgs., c.l., works ton 50.00 - —
l.c.l., bgs ton 55.00 -105.00
Gluconate, dms., cns lb 1.30 - 1.37
Magnesium glycerophosphate, dms., works lb 5.40 - 5.50
Hydroxide, NF, medicinal, bbls., dms. kgs lb .26¼- .30
Metal, 99.8% ingots, cs., works lb .27 - .2820
sticks, cs., works, frt. alld. on carlots lb .46 - .48
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works lb 1.00 - 1.05
Phosphate, tribasic, NF, bbls. lb .75 - —
Silicate (see Talc).
Silicofluoride, bbls., works lb .09 - .10
Sulfate, tech., bgs., c.l., works, 100 lbs. 2.15 - —
l.c.l., works 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works, 100 lbs. 2.33 - —
l.c.l., 5,000 lbs., 1 withdrawal 100 lbs. 3.10 - —
smaller lots 100 lbs. 3.35 - —
Trisilicate, USP, dms., 5,000-lb. lots lb .38 - —
1,000-lb. lots lb .40 - —
100-lb. lots lb .45 - —

Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.

Malathion, dms., works lb 1.05 - —
Maleic anhydride, dms., c.l., dlvd. E lb .27 - —
l.c.l., dlvd. E lb .28 - —

Prices on maleic anhydride W of Rockies, 1½c. higher.

Mandrake root, bls. lb .32 - .34
Manganese acetate, bbls., dlvd lb .35 - —
Arsenate, bgs lb .16 - —
Borate, tech., bbls lb .24 - —
Carbonate, bbls., works lb .22 - —
Chloride, anhyd., dms., works lb .25½- —
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, paper bgs., gross for net, works ton 88.00 - —
paper-lined burlap bgs., works ton 91.50 - —
dms., works ton 94.00 - —

Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.

Gluconate, dms. lb 1.79 - 1.93
Glycerophosphate, NF, fib. dms. lb 4.70 - 4.80

Manganese hydrate, bbls., dlvd. lb .36 - —
Hypophosphite, NF, dms. lb 3.52 - —
Linoleate, liq., 4.35% Mn., dms. lb .32½- —
solid, precip., 8.2% Mn, bbls. lb .37½- —
Metal, cs., dlvd. East lb .30 - .33
Naphthalene, liq., 6% Mn., dms., frt. alld lb .27 - —
Resinate, fused, 3½% Mn., dms lb .23 - —
precip., 6½-7% Mn., dms lb .27 - —
Sulfate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E ton 80.50 - —
l.c.l., dlvd. S. E ton 87.50 - —
Tallate, 6%, dms lb .24 - —
Mangrove bark, E. African, 35% tannin, c.l., ex dock ton 69.00 -70.00
So. American, 30% tannin, c.l., ex dock ton 55.00 -58.00
Mannitol, coml., dms., works lb .40 - .43
Melamine, bgs. ton lots, works lb .53 - —
500 to 2,000-lb. lots, works lb 53½- —
smaller lots, works lb .38½- —
Menadione, USP, bots. gram .06 - .06½
Menthol, nat., USP, Brazilian, cs. lb 8.65 - 8.75
Japanese, cs lb 13.00 - —
syn., USP, racemic, cns lb 5.45 - —
Menthyl salicylate, tins lb 4.00 - 4.25
2-Mercaptobenzothiazole, bgs., fib. dms. ton lots, works, frt. alld lb .38 - —
less ton lots, same basis lb .40 - —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton-lots, works, frt. alld lb .48 - —
less ton lots, same basis lb .50 - —
Mercuric chloride, NF, cryst., dms., 50-lb. lots or more lb 4.98 - —
gran. or powd., dms., 50-lb. lots or more lb 4.78 - —
Cyanide, NF VIII, powd., fib. dms. lb 6.84 - —
Iodide, red, NF, fib. dms. lb 7.72 - —
Mercuric oxide, red, NF, powd., fib. dms lb 5.97 - 6.01
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms. lb 6.14 - —
Mercurous chloride (see Calomel).
Iodide, yellow, NF lb 7.72 - —
Mercury, ammoniated (see White precipitate USP).
Metal, 76 lbs. per flask, net flask 330.00 - —
Mesityl oxide, dms., c.l., dlvd. lb .1350- —
l.c.l., dlvd. lb .1450- —
tanks, dlvd. lb .1150- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Choloraniline)
Metanitroaniline (see m-Nitroaniline)
Metanitroparatoluidine (see m-Nitro-p-toluidine).
Metaphenylenediamine (see m-Phenylenediamine)
Metatoluidine (see m-Toluidine)
Metatolylenediamine (see 2,4-tolylenediamine).
Methanol, nat., denaturing grade, tanks, frt. alld gal .70 - —

Prices on natural methanol W of Miss. 3c. higher.

syn., Zone 1, dms., c.l., dlvd., or truckload min., frt. alld gal .42 - —
l.c.l., same basis gal .48 - —
tankwagon, 2-4,000 gals., dlvd., Metropolitan areas gal .30 - —
tanks, dlvd., or 4,000 gal. min., frt. alld gal .27 - —
4,000 gal. min., frt. equald. with Camden, N. J gal .23½- —
Zone 2, dms., c.l., or truckload min., frt. alld or dvld gal .47 - —
l.c.l., same basis gal .53 - —

### Lime, Spray—Methyl Acetone

Methanol, syn., Zone 2, tankwagon, 2-4,000 gals min., dlvd. Metropolitan areas gal .35 - —
tanks, 4,000 gal., min., frt. alld. or dlvd gal .32 - —

Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine).
dl-Methionine, fib. dms., frt. alld., 50-lb. or more lb 3.50 - —
feed grade, 98% lib dms same basis lb 2.65 - —
Methoxychlor, 50% wettable powder, dealers dms. cs. frt. alld lb .81 - .8
Methyl abietate, non-ret. dms., c.l., dlvd. zone 1 lb .20½- —
l.c.l., same basis lb .21 - —
hydrogenated, non-ret. dms., c.l., dlvd., zone 1 lb .21 - —
l.c.l., same basis lb .21¼- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetone, nat., dms., l.c.l., E. of Miss., frt. alld gal .62½- —
syn., dms., c.l., frt. alld. E gal .57 - —
l.c.l., frt. alld. E gal .63 - —
tanks, frt. alld E gal .45 - —

Synthetic methyl acetone E. territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory all states west of those four.


CSC LOW-COST INTERMEDIATES IN TANK-CAR QUANTITIES

This versatile trio represents the most economical source of the amine group because of their low equivalent weights and moderate prices. Marketed by CSC in both anhydrous and aqueous forms, they are available for shipment in large-volume quantities (tank cars) as well as in drums and smaller containers. Write for latest Technical Data Sheet. Industrial Chemicals Sales Dept., Commercial Solvents Corporation, 260 Madison Avenue, New York 16, N. Y.

MONOMETHYLAMINE $CH_3NH_2$

Uses

Manufacture of amide and sulfonated amide-type detergents and surfactants. Synthesis of caffeine, aminophylline and desoxyephedrine. Manufacture of photographic chemicals, the explosive tetryl, amide-type plasticizers, ion-exchange resins, corrosion inhibitors and paint removers.

Properties

| | | |
|---|---|---|
| Molecular Weight | 31.06 | |
| Boiling Point at 760mm, °C | — 6.79 | |
| Flash Point, Tag Open Cup, °F | 34 | (30% sol) |
| Density at 20°C | 0.912 | (30% sol) |
| Weight per U.S. Gallon at 68°F, lbs. | 7.6 | (30% sol) |

DIMETHYLAMINE $(CH_3)_2NH$

Uses

Raw material in manufacture of thiuram sulfide-type vulcanization accelerators and of dimethyldithiocarbamic acid salts used as fungicides. Neutralizing and solubilizing agent in preparation of concentrated solutions of 2,4-D salts. Manufacture of anti-malarials.

Properties

| | | |
|---|---|---|
| Molecular Weight | 45.08 | |
| Boiling Point at 760mm, °C | 6.88 | |
| Flash Point, Tag Open Cup, °F | 54 | (25% sol) |
| Density at 20°C | 0.921 | (25% sol) |
| Weight per U.S. Gallon at 68°F, lbs. | 7.7 | (25% sol) |

TRIMETHYLAMINE $(CH_3)_3N$

Uses

Preparation of long-chain quaternary ammonium compounds used as softeners, lubricants and waterproofing agents for textiles. Used with benzoyl peroxide to "set" methacrylate resins. Synthesis of cationic surface-active agents.

Properties

| | | |
|---|---|---|
| Molecular Weight | 59.11 | |
| Boiling Point at 760mm, °C | 2.87 | |
| Flash Point, Tag Open Cup, °F | 38 | (25% sol) |
| Density at 20°C | 0.913 | (25% sol) |
| Weight per U.S. Gallon at 68°F, lbs. | 7.6 | (25% sol) |

COMMERCIAL SOLVENTS
260 MADISON AVENUE NEW YORK, N.Y.
CSC INDUSTRIAL CHEMICALS

## Methyl Acrylate—Nitrocellulose, Ester-Soluble

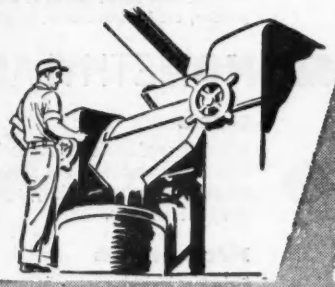
Methyl acrylate, dms., c.l., and truckload, works..lb. .44½- —
less than truckload, works..lb. .45½- —
tanks, works..lb. .42¾- —
Alcohol (see Methanol).
Amyl acetate, dms., c.l., dlvd. E..lb. .15 - —
l.c.l., dlvd. E..lb. .16 - —
tanks, dlvd. E..lb. .13 - —
Ketone, dms., works..lb. 1.05 - —
Anthranilate, cns..lb. 2.50 - 2.65
Benzoate, cns., dms..lb. .53 - .65
Bromide, jobbers, cyls., various sizes, works..lb. .47 - .61
Cellulose, special, vis. (1,500-4,000 cps.) 50-lb bgs., c.l., works..lb. .78 - —
2,000-lb. lots and more, same basis..lb. .85 - —
smaller lots, frt. alld. on 100 lbs..lb. .89 - 1.00
standard vis., (15-400 cps.), 50-lb., c.l., alld..lb. .66 - —
2,000-lb. lots and more, same basis..lb. .72 - —
smaller lots, frt. alld. on 100 lbs..lb. .75 - .85
Chloride, indust., cyls., frt. equald..lb. .21 - —
tanks, multi-unit, same basis..lb. .15 - —
single unit, same basis..lb. .11½- —
refrigerator mfrs., cyls., dlvd..lb. .40 - .42
other consumers or service men, cyls., dlvd..lb. .57 - —
Cinnamate, cns..lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works..lb. .35½- —
l.c.l., works..lb. .36 - —
tanks, works..lb. .34 - —
Ethyl ketone, dms., c.l., dlvd..lb. .13 - —
l.c.l., dlvd..lb. .14 - —
tanks, dlvd..lb. .11 - —
Methyl formate, refd., dms..lb. .35 - .40
tech., non-ret. dms., anv quantity, works..lb. .06 - —
tanks, works..lb. .07 - —
Heptin carbonate, bots..lb. 33.00 - 42.00
p-Hydroxybenzoate, fib. dms..lb. 1.90 - 2.00
Ionone, standard, cns., dms..lb. 3.80 - 4.65
Isobutyl carbinol, dms., c.l., dlvd..lb. .15 - —
l.c.l., dlvd..lb. .16 - —
tanks, dlvd..lb. .13 - —
Ketone, dms., c.l., dlvd..lb. .15 - —
l.c.l., dlvd..lb. .16 - —
tanks, dlvd..lb. .13 - —
Lactate, dms., l.c.l., works..lb. .35 - —
Methacrylate, dms., c.l., and truckload, frt. equald., with Belle, W. Va., and Arlington, N. J..lb. .36½- —
smaller lots, same basis..lb. .37 - —
tanks, same basis..lb. .35 - —
Naphthyl ketone, cryst., cns..lb. 3.60 - 4.30
Parahydroxybenzoate (see Methyl p-Hydroxybenzoate).
Roseaniline chloride, NF, fib. dms..lb. 5.44 - —
Salicylate, USP, cns., 50 lb. lots, lots, dms..lb. .58 - —
..lb. .53 - —
Testosterone, USP, 100-gram bots..gram. .79 - —
2-Methyl-5-ethyl pyridine, dms., c.l., works..lb. .47½- —
l.c.l., works..lb. .48 - —
tanks, works..lb. .46 - —
Methylene blue, fib. dms., 200-lb. lots, frt. adjusted..lb. 3.25 - 3.60
smaller lots, same basis..lb. 3.40 - 3.60
Chloride, indust., dms., c.l., dlvd. E..lb. .13½- —
Methylionone, A, cns..lb. 6.55 - 8.80
D, cns..lb. 7.50 - 9.55
prime, cns..lb. 4.55 - 6.40
standard, dms., cns..lb. 3.80 - 4.65
b-Methylnaphthalene, 32°C. m.p., dms., works..lb. .90 - —
Methylparaben (see Methyl parahydroxybenzoate).
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone (see 1-Phenl-3-methylpyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint plastic, 100 mesh, bgs., c.l., works..lb. .04¼- —
roofing, 20 to 80 mesh, works..lb. .03 - .04
wet-grd., biotite, bgs., c.l., works, frt. alld. E..lb. .06¼- —
l.c.l., ex-whse. or frt. alld. E..lb. .07 - —
paint, or lacq., bgs., c.l., works, frt. alld..lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E..lb. .08½- —
rubber, bgs., c.l., works, frt. alld. E..lb. .07½- —
l.c.l., ex-whse. or frt. alld. E..lb. .08½- —
wallpaper, bgs., c.l., works, frt. alld., E..lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E..lb. .08¼- —
white, extra, fine bgs., c.l., works, frt. alld. E..lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E..lb. .08½- —
Mica, wet-grd. W. of Miss R. ½c. higher. W. of Rockies, 1c. higher.
Milk powder, non-fat, roller, bgs., c.l..lb. .12 - .1535
spray, bgs., c.l..lb. .14 - .1610
whole, roller, bgs., c.l..lb. No prices.
spray, bgs., c.l..lb. .27 - .31
Sugar (see Lactose).
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap feed grade, tanks, New Orleans..gal. .10½- .11
New York..gal. .12 - —
Molybdenum metal, 98% Mo. powd., kgs..lb. 3.00 - 3.25
Trioxide, pure, kgs., works, basis Mo. content..lb. 1.35 - —
tech., kgs., works, basis Mo. content..lb. 1.14 - —
Monobutylamine, dms., c.l., E. of Rockies..lb. .55 - —
l.c.l., same basis..lb. .56 - —
tanks, same basis..lb. .53 - —
Monochlorobenzene dms., c.l., frt. alld. or dlvd. E..lb. .11½- —
l.c.l., same basis..lb. .12½- —
tanks, same basis..lb. .10 - —
Monochlorobenzene prices in the West, 1¾c higher.
Monoethanolamine, dms., c.l., dlvd. E..lb. .26¾- —
l.c.l., same basis..lb. .27¾- —
tanks, same basis..lb. .25 - —
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% contained amine, dms., c.l., dlvd E..lb. .33 - —
l.c.l., dlvd. E..lb. .34 - —
tanks, dlvd. E..lb. .31 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylortotoluidine (see N-Ethyl-o-toluidine).
Monoisopropylamine, dms., c.l., dlvd..lb. .30½- —
l.c.l., same basis..lb. .31¼- —
tanks, same basis..lb. .28½- —
c.l., frt. equald., 100% basis.
Monomethylamine, 30-35% soln., dms., lb. .40 - —
l.c.l., 100% basis..lb. .40½- —
40% soln., dms., c.l., frt. equald., 100% basis..lb. .37 - —
l.c.l., frt. equald..lb. .37½- —
tanks, 100% basis..lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Glutamate (see Sodium glutamate monobasic).
Phosphate (see Sodium phosphate monobasic).
Mono-tertiary-butylmetacresol (see 6-tert-Butyl-m-cresol).
Morphine cns..oz 12.40 -12.60
Acetate, anhyd., cns..oz 9.95 -10.00
Hydrobromide, cns..oz 9.90 9.95
Hydrochloride, NF, cns..oz 9.90 9.95
Sulfate, USP, cns..oz. 9.90 -10.05
Morpholine dms., c.l., dlvd. E..lb. .34¾- —
l.c.l., dlvd. E..lb. .35¾- —
tanks, dlvd. E..lb. .32¾- —
Musk, nat., Tonquin grains, bots..oz. No stocks.
syn., ambrette, 100-lb. lots, fib. dms..lb. 5.15 - —
25-lb. lots, cns..lb. 5.20 - —
5-lb. lots, cns..lb. 5.30 - —
ketone, 100-lb. lots, fib. dms..lb. 5.30 - —
25-lb. lots, cns..lb. 5.35 - —
5-lb. lots, cns..lb. 5.45 - —
xylol, 100-lb. lots, fib. dms..lb. 1.40 - —
25-lb. lots, cns..lb. 1.45 - —
5-lb. lots, cns..lb. 1.50 - —
Mustard seed, Danish, yellow, bgs..lb. .12 - —
Dutch, yellow, bgs..lb. .11 - .11¼
English, yellow, bgs..lb. Nominal
Montana, oriental, bgs..lb. .09 - .09½
yellow, bgs..lb. .12½- .13
Myrobalans, J-1, assorted, bgs., ex dock..ton.47.00 -48.00
crushed, bgs., ex dock..ton.62.50 - —
ordinary, bgs., ex dock..ton.42.00 - —
extract, Indian, solid, 53% tannin, bgs., exdock, plus duty..lb. .07¼ Nom.

## N

Naphtha, painters (see Petroleum naphtha V. M. & P.).
Solvent (see S).
Naphthalene, crude, dom., 74° tanks, frt. equald..lb. .045 - —
78°, dms., c.l., same basis..lb. .059 - —
l.c.l., same basis..lb. .0615- —
tanks, same basis..lb. .05 - —
imported, 78°, large lots..lb. .04½- .04¾
refd., indust., dom., chipped or crushed, bgs., frt. equald..lb. .10½- —
flake, bgs., same basis..lb. .11½- —
tanks, same basis..lb. .09¾- —
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis..lb. .13¾- —
cs., 50 lbs., c.l., same basis..lb. .14 - —
1-lb. pkgs. c.l., same basis..lb. .16¼- —
a-Naphthol, bbls., frt. alld..lb. 1.00 - —
b-Naphthol, resub., dms., works..lb. .78½- —
tech., bbls., c.l., works..lb. .32½- —
l.c.l., works..lb. .34½- —
Benzoate, fib. dms., works..lb. 3.00 - —
custom contract, works..lb. 1.65 - —
Salicylate, dms..lb. 5.00 - —
Sulfate, cns..lb. 35.00 - —
a-Naphthylamine, bbls., frt. alld..lb. .50 - —
b-Naphthylamine, tech., bbls., works..lb. 1.05 - 1.10
Neocinchophen, USP, dms., frt. adjusted..lb 7.00 - 8.00
Neomycin, fib. dms., 100-kilo lots, basis, activity..gram. .60 - —
1-kilo lots, basis, activity..gram. 1.20 - —
Nerolin, cns..lb. 2.55 - 2.65
Niacin (see Acid, nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd..lb. .75 - .80¼
Carbonate, bbls., dlvd..lb. .71 - .78
Chloride, bbls., dlvd..lb. .37 - .45
Formate, bbls., ton lots, frt alld..lb. .64 - .65
Metal, electro cathodes cs, works..lb. .60 - —
Nitrate, bbls., works..lb. .36 - .37
Oxide, black, bbls..lb. .69 - —
Sulfate, bgs., c.l., dlvd..lb. .29 - —
l.c.l., dlvd..lb. .29½- .37
Nicotinamide, USP, dms., frt. adjusted..kilo.12.00 -12.30
Hydrochloride, dms., frt. adjusted, kilo.11.50 -11.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt. alld..lb. 1.20 - —
manufacturers, 500-lb. dms., frt. alld..lb. 1.03 - —
Niger seed, bgs..lb. .14½- .15
Nikethamide, cbys..lb. 5.75 - 6.00
m-Nitroaniline, dms., frt. alld..lb. 1.05 - —
o-Nitroaniline, flaked, dms..lb. .54 - .57
powd., dms..lb. .60 - —
p-Nitroaniline, dms., l.c.l., frt. alld..lb. .51½- —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld..lb. .12 - —
l.c.l., frt. alld..lb. .13 - —
tanks, frt. alld..lb. .11 - —
o-Nitrobiphenyl, tech., dms., c.l., works..lb. .14½- —
l.c.l., works..lb. .15 - —
tanks, works..lb. .13 - —
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works..lb. .34 - —
l.c.l., same basis..lb. .35 - .37
18-25 cps., bbls., c.l., same basis..lb. .36 - —
l.c.l., same basis..lb. .37 - .39
250-400, 600-1,000 secs., bbls., c.l., same basis..lb. .39 - —
l.c.l., same basis..lb. .40 - .42


# HARSHAW DRIERS

Conform to the Strict Tolerances Needed for Top Quality



TYPICAL HARSHAW DRIERS

Harshaw's precise manufacturing specifications demand the following tests for every batch of driers produced:

- Metal content
- Specific gravity
- Color
- Viscosity
- Total solids content
- Flash point (T. C. C.)
- Moisture content
- Acid value
- Miscibility with raw linseed oil
- Miscibility with mineral spirits
- Benzene insoluble content
- Customer's specified tests

**LIQUID DRIERS**
Uversol (Naphthenate) Liquids
Linoresinate Liquids
Linoleate Liquids
Lithos
Octasols
Pastes
Pastalls

**SOLID DRIERS**
Uversol (Naphthenate) Solids
Linoresinate Solids
Linoleate Solids
Soyate Solids
Fused Resinates

**POWDERED DRIERS**
Precipitates Resinates
Drying Salts:
Cobalt
Lead
Manganese
Zinc

Order your next requirement of Driers from Harshaw. Produced and tested at our Plant, Gloucester City, N. J. . . . The most modern facilities available . . . For nationwide distribution through 18 stock points.

THE HARSHAW CHEMICAL CO.
1945 East 97th Street, Cleveland 6, Ohio
BRANCHES IN PRINCIPAL CITIES

Nitrocellulose, spirit-soluble, 30-35 cps., ¼, ½, sec., bbls., c.l., same basis..lb. .41 - —
l.c.l., same basis.....lb. .42 - .44
5-6, 40-60 secs., bbls., c.l., same basis..lb. .40 - —
l.c.l., same basis..lb. .41 - .43

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.

o-Nitrochlorobenzene, dms.....lb. .20 - .21
p-Nitrochlorobenzene, dms.....lb. .26 - .27
2-Nitro-4-chlorophenol, dms.....lb. .73 - —
Nitroethane, dms., dlvd. E of Rockies..lb. .25 - —
Nitrogen solution, tanks, frt. equald, 37-40.5% N, 100% basis..ton.128.00 - —
Nitrogenous process tankage, bulk, works..unit-ton. 3.75 Nom.
Sewage sludge, bulk, works unit-ton. 2.95 + .50
Nitromethane, dms., l.c.l., dlvd. E. of Rockies lb. .25 - —
a-Nitronaphthalene, bbls, frt. alld. lb. .41 - —
Nitropropane 1, dms., dlvd. E. of Rockies..lb. .23¼- —
2, dms., dlvd. E. of Rockies...lb. .25 - —
l.c.l., works.....lb. .24¾- —
tanks, works.....lb. .22¾- —
o-Nitrophenol, dms., works, frt. equald..lb. .94 - —
p-Nitrophenol, dms., works, frt. equald lb. .50 - —
o-Nitrotoluene, dms., c.l., frt. alld.lb. .10 - —
l.c.l., frt. alld.....lb. .11 - —
tanks, frt. alld.....lb. .09 - —
p-Nitrotoluene, dms., works.....lb. .33 - .36
m-Nitro-p-toluidine, dms.....lb. 1.59 - —
Nitrous ether, conc., bots..100-lb. lots..lb. 1.28 - 1.35
Nonyl phenol, dms., c.l., frt. alld. lb. .26 - .30¾
l.c.l., frt. alld.....lb. .27 - .31¾
tanks, frt. alld.....lb. .24 - .29
Nutgalls, Aleppo, bgs. .....lb. .38 - —
Chinese, bgs .....lb. .45 Nom.
Nutmeg, East Indian, whole, bgs lb. .38 - —
shrivels, bgs. .....lb. .38 - —
West Indian, bgs.....lb. .29½- —
Nux vomica, bls .....lb. .10 - .12
powdered, bbls., bxs.....lb. .15 - .17

## O

Octane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex.....gal. .15¾- —
Borger, Tex .....gal. .15¾- —
1-Octanol tech., dms., c.l., dlvd. lb. .35 - —
l.c.l., dlvd.....lb. .37 - —
tanks dlvd.....lb. .32½- —
Octyl phenol, bgs., c.l., works...lb. .23¼- —
l.c.l., works .....lb. .23¾- —
tanks, works .....lb. .22½- —
Drum prices for octyl phenol are 1c. higher.

(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)

Oil, abies siberica, cns.....lb. 2.05 2.55
Almond, artif., bitter (see Benzaldehyde).
nat., bitter, F.P.A., bots....lb. 3.00 - 3.40
NF, bots. .....lb. 3.25 - 3.75
sweet, USP, dms., cns.....lb. .55 - .90
Allspice (see Oil, pimento).
Amyris, dms. .....lb. 1.40 - 1.85
Angelica root, bots.....lb.66.00 -100.00
seed, bots .....lb.56.00 -95.00
Aniline (see A).
Anise, USP, dms .....lb. 3.50 - 4.00
Apricot, kernel, USP, dms....lb. .45 - .50
Avocado, cns .....lb. 3.25 - —
Babassu, crude, tanks.....lb. No stocks
Bay, NF, Puerto Rican, 50-55%, cns..lb. 1.55 - 2.00
55-60%, cns.....lb. 1.65 - 2.10
West Indian, 50-55%, cns., dms. lb. 1.45 - 2.25
Bergamot, nat., NF, Italian, cns. lb.10.90 -13.00
Birchtar, crude, cns.....lb. 1.50 - 1.90
rectified, NF, cns.....lb. 2.00 - —
Bois de rose, Brazil, dms.....lb. 4.50 - 6.00
Mexican (see Oil, lignaloe wood).
Bone, dms., works .....lb. .65 - .70
Cajeput, native, cns.....lb. 1.90 - 2.10
redist., USP, cns.....lb. 2.40 - 2.80
Calamus, bots.....lb.12.00 -20.00
Camphor, sassafrassy, dms....lb. .38 - .45
white, dms. .....lb. .31 - .38
Cananga, native, cns.....lb. 7.85 -10.25
rectified, cns .....lb.12.50 -14.00
Caraway, NF, cns.....lb. 3.50 - 5.00
Capsicum (see Capsicum oleoresin).
Cardamom, NF, bots.....lb.36.00 -50.00
Cassia, USP (see Oil, cinnamon, USP).
Castor, blown, dms., c.l.....lb. .20 - —
l.c.l. .....lb. .2150- —
dehydrated, bodied, dms., c.l. lb. .2260- —
l.c.l. .....lb. .2310- —
tanks .....lb. .2160- —
unbodied, dms., c.l.....lb. .2110- —
l.c.l. .....lb. .2160- —
tanks .....lb. .2010- —
hydrogenated, bgs., l.c.l.....lb. .2350- .2450
No. 3, tech., dms., c.l.....lb. .1775- —
l.c.l. .....lb. .1825- —
tanks .....lb. .1675- —
No. 1, Brazilian, tanks.....lb. .15½- .15¾
sulfonated, 50%, dms., l.c.l....lb. .13½- .14
75%, dms., l.c.l.....lb. .17 .17½
USP, dms., c.l.....lb. .1600- —
l.c.l. .....lb. .1650- —
tanks .....lb. .1700- —
refd. and deodorized, dms., c.l..lb. .1950- —
l.c.l. .....lb. .20 - —
tanks .....lb. .1850- —
Cedarleaf, cns., dms.....lb. 2.25 - 3.00
Cedarwood, cns., dms.....lb. 1.00 - 1.30
Celery seed, bots.....lb.13.00 -21.00
Chamomile, blue, Hungarian bots. lb.175.00 -200.00
Chinawood (see Oil, tung).
Cinnamon bark, bots.....lb.28.00 -45.00
leaf, cns. .....lb. 1.25 - 3.25
USP, cns., dms., (Cassia)....lb. No stocks.
Citronella, Ceylon, cns., dms...lb. 1.10 - 1.75
Java, true, dms.....lb. 1.30 - 2.00
Java-type, cns. .....lb. 1.30 - 2.00
Clove, buds, USP, cns., dms....lb. 3.25 - 4.50
leaf, unrectified, dms.....lb. 1.85 - 2.20
Coconut, crude, tanks, N. Y...lb. .13¾- —
Pac. Coast .....lb. .13 - —
refd., Cochin type, tax incl. frt. dms., l.c.l..lb. .20¾- —
deodorized tax incl. non-ref. dms., c.l..lb. .22½- —
Cod, Newfoundland, dms.....lb. .09½- .10
Codliver, USP, dms.....gal. 1.50 - 1.60
Copaiba, cns .....lb. 1.80 - 2.50
Coriander, USP, bots.....lb.14.75 -18.00
Corn, crude, tanks, works....lb. .13¾- —
foots (soapstock), acid 95%, tanks, N. Y..lb. .04¼- —
refd., salad, dms.....lb. .18½- .18¾
tanks .....lb. .17 - —
Costus, bots. .....oz. 9.00 - —
Cottonseed, crude, tanks, South-East..lb. .12¾- .12¾
Valley .....lb. .12¾- —
Texas .....lb. .12 - .12½
foots (soapstock), acid 95%, tanks, N. Y lb. .03¾- —
raw, 50%, tanks, same basis. lb. .01¾- —
refd., salad, dms.....lb. .17¾- .18¼
tanks .....lb. .16¼- —

Oil, creosote (see Creosote, coaltar).
Crude (see Petroleum, crude).
Cubeb, cns .....lb. 4.50 - 6.00
Cumin, bots., cns.....lb. 4.15 - 5.75
Cypress, bots. .....lb. 5.30 - —
Degras (see D).
Dillseed, bots. .....lb. 2.80 - 4.25
Dillweed, dom., bots., dms.....lb. 3.75 - 5.30
Dip (see D).
Erigeron, cns. .....lb. 5.50 - 7.50
Eucalyptus, NF, rectified, 70-80%, dms..lb. .67 - 1.00
80-90%, dms. .....lb. .85 - 1.25
Fennel, sweet, USP, cns.....lb. 2.30 - 3.25
Fir, Canada, cns.....lb. 2.35 - 2.80
Fish, refd., alkali, dms.....lb. .1350- .1450
kettle-bodied, dms. .....lb. .1580- .1680
light-pressed, dms. .....lb. .1200- .1300
tanks .....lb. .10½- —
Fishliver, crude, for feeds or concentrating, 4,000 to 12,000 A units per gram, dms., 1,000,000 units. .08 - .09
10,000 to 20,000 A units per gram, dms., 1,000,000 units. .09 - .10
25,000 to 35,000 A units per gram, dms., 1,000,000 units. .09 - .10
40,000 to 55,000 A units per gram, dms., 1,000,000 units .10½- .11
100,000 A units per gram, dms..1,000,000 units. .12 - .14
200,000 A units per gram, dms 1,000,000 units. .12 - .14
300,000 A units per gram, dms. 1,000,000 units. .12 - .14½
400,000 A units per gram, dms 1,000,000 units. .12 - .14½
500,000 A units per gram, dms..1,000,000 units. .12 - .14½

Prices above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1900.

Oil, fusel (see F).
Garlic, pure, bots.....oz. 6.50 - 9.50
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns.....lb.10.50 -12.00
Bourbon, cns .....lb.10.75 -13.50
Turkish (see Oil palmarosa)
Ginger, dist., bots.....lb.12.25 -17.50
Grapefruit, dms. .....lb. 2.50 - 3.25
Grease, No. 1, dms.....lb. .12 - .12½
extra, winter, strained, dms..lb. .16 - .16½
prime, burning, dms. .....lb. .17 - .17½
Guaiacwood, cns.....lb. 1.40 - 1.90
Hemlock, cns. .....lb. 2.70 - 3.80
Juniper berry, NF, VIII, bots..
twice rectified, bots lb. 3.60 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns.....lb. .42 - .65
Lard (see Oil, grease).
Laurel leaf, dms., cns. .....lb. 9.75 -12.50
Lavandin, dms., cns.....lb. 2.50 - 4.00
Lavender, flower, USP, French, 30-32% ester, cns.....lb. 3.55 - 5.00
38-40% ester, cns.....lb. 8.00 -11.00
40-42%, ester, cns.....lb. 8.10 -12.00
Spike, Spanish, cns.....lb. 1.75 - 2.15
Lemon, USP, Calif., cns., dms..lb. 6.35 - 8.00
Messina, cns. .....lb. 6.05 - 9.00
terpeneless bots .....lb.32.00 -85.00
Lemongrass, cns., dms.....lb. 2.10 - 3.00
Lignaloe wood, Mex., cns.....lb. 3.70 - 4.50
Lime, dist., Mexican, cns.....lb. 3.75 - 6.00
West Indian, cs.....lb. 4.45 - 7.25
expressed, West Indian, cns lb. 7.75 - 8.50
terpeneless, bots .....lb.29.50 -100.00
Linseed, raw, dms., c.l., N. Y..lb. .1675- —
l.c.l. .....lb. .1725- .1775
tanks, f.o.b. Minneapolis....lb. .1400- —
New York .....lb. .1525- —
tankwagon, New York.....lb. .1555- —
Boiled linseed oil, .006c. per lb. higher.



Oil, mace, dist., cns., dms.....lb. 3.00 - 4.25
Mandarin (see Oil, tangerine).
Menhaden, crude, tanks, works, Atlantic Coast..lb. .08 Nom.
Gulf ports.....lb. .08 Nom.
Mineral, white (see Oil, white mineral)
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms.....lb. .18 Nom.
synthetic, cans, dms.....lb. 1.60 - 1.85
Neatsfoot, 15° cold test, dms..lb. .33 .34
20° cold test, dms.....lb. .32 .33
30° cold test, dms. .....lb .30 .31
Neroli, NF, French, bots.....lb.85.00 -260.00
Spanish, bots .....lb.35.00 -85.00
Nutmeg, USP, dist., East Indian, cns., dms lb 2.85 3.65
West Indian cns., dms lb 2.60 3.65
Ocotea, cymbarum, dms.....lb. 1.10 - 1.50
Oiticica, liquid, dms.....lb. .16½- .17
tanks .....lb. .15¼- —
Oleo, extra, dms.....lb. .19½- .19¾
Olibanum, bots. .....lb. 5.50 - 7.65
extra fine, bots.....lb. 8.00 - —
Olive, edible, dms., duty paid..gal. 2.25 - 2.35
Orange, sweet, dist., cns lb. .40 .80
expressed, USP, Brazilian, cns., dms lb No stocks.
Calif., cns., dms. ....lb. .60 - 1.25
Florida, cns., dms.....lb. .45 - 1.25
Messina, cns .....lb. 3.85 3.85
West Indian, cns., dms lb 2.50 3.65
sesquiterpeneless, bots.....lb.65.00 -120.00
Origanum, Spanish, cns.....lb 1.95 2.85
Palm, clarif., dms .....lb. .1240- .1250
kernel, denat., tanks.....lb. .13 - —
Palmarosa, cns. .....lb. 8.00 - 9.50
Paraffin, pale, 100-110 vis., at 100°F tanks, East Coast refy..gal. .14 - —

Exchange Brand is the 4-to-1 favorite over all other lemon oils *combined!*

Year after year, Exchange Brand *quality* proves itself in sales. That's because Exchange Lemon Oil comes only from California lemons grown and skillfully processed by Sunkist Growers.

When a little lemon oil goes so far, why risk buying anything but the best?

**Sunkist Growers**
PRODUCTS DEPARTMENT • ONTARIO, CALIFORNIA

*Produced by*
Exchange Lemon Products Co. • Corona, California

*Distributed in the U.S. exclusively by*
FRITZSCHE BROTHERS, INC.
76 Ninth Ave., New York 11, N.Y.
DODGE & OLCOTT, INC.
180 Varick St., New York 14, N.Y.

Exchange
OIL OF LEMON U.S.P.

## Oil, Patchouli—Peanut Meal

Oil, patchouli, dms ..... lb. 8.00 - 9.50
Peach kernel, USP, (see Oil apricot kernel).
Peanut, crude, tanks, f.o.b. mills. lb. .21½- —
refd., dms ..... lb. .27 - .27½
tanks ..... lb. .25½- —
Pennyroyal, USP, imported, cns lb. 1.90 - 2.50
lb. 1.60 2.40
Peppermint, nat., dms ..... lb. 7.50 - 9.00
redist, USP, dms. ..... lb. 8.00 - 9.50
Persic, USP (see Oil, apricot kernel).
Petitgrain, South American, cns., dms. lb. 4.25 - 5.30
Pimento, berry, NF, dms ..... lb. 6.00 - —
leaf, cns ..... lb. 2.35 - 3.00
Pine, dest-dist., dms., l.c.l., works. lb. .11¼- —
ex-whse. ..... lb. .13¼- —
steam dist., dms., ex whse., N.Y.C. lb. .151 - —
Pineneedle, Siberian (See Oil, abies siberica).
Rapeseed, tankcars ..... lb. .17½ Nom.
Red (see Acid oleic)
Rice bran, clarif., dms., l.c.l. ... lb. .16½ Nom.
tanks, dlvd. E ..... lb. .15 Nom.
Rose, nat., Bulgarian, bots ... oz. 43.50 -62.25
Rosemary, Spanish, USP, cns., dms. lb. .65 - 1.00
tech., cns., dms. ..... lb. .50 - .70
Rue, bots ..... lb. 1.65 - 2.30
Safflower, dms., c.l., Atl. coast. lb. .1910- —
tanks, same basis ..... lb. .1760- —
Sage, clary bots ..... lb. 20.00 -25.00
Dalmatian, cns. ..... lb. 5.50 - 7.25
Spanish, cns. ..... lb. .90 - 1.25
Sandalwood, NF, cns ..... lb. 11.00 -12.00
Sardine, crude, tanks, Pac. coast lb. No stocks.
Oil, sassafras, artif., dms ..... lb. .90 - 1.10
nat., Brazilian (see Oil ocotea cymbarium).
dom., USP, cns., dms ..... lb. 1.75 - 2.20
Savin, cns. ..... lb. 2.75 - —
Savory, cns ..... lb. 4.25 - —
Sesame, refd., dms ..... lb. .36 - .37
Shingle stain, tar distillate, dms., c.l., works. lb. .33 - —
l.c.l., works ..... lb. .35 - —
tanks, works ..... lb. .23 - —
Snakeroot, Canada, cns ..... lb. 28.50 -31.00
Soybean, crude, tanks, Decatur lb. .12 - —
foots (soapstock), acid, 95% tanks, N. Y. lb. .05 - —
raw, 50% tanks, N. Y. ..... lb. .02½- —
refd., alkali, dms ..... lb. .16 - .16½
tanks ..... lb. .14½- —
clarified, dms ..... lb. .15½- .16
tanks ..... lb. .14 - —
salad, dms ..... lb. .16¼- .16½
tanks ..... lb. .14¾- —
Spearmint, USP, dms ..... lb. 4.00 - 5.50
Sperm, bleached winter, 45°, dms. lb. .1625- .1650
tankcars ..... lb. .1450- —
nat., winter, 45,° dms ..... lb. .1525- .1550
tankcars ..... lb. .1350- —
Spruce, cns., dms ..... lb. 2.10 - 2.75
Sweet birch, USP, Northern, cns. lb. 4.25 - 9.50
Southern, cns ..... lb. 2.50 - 3.00
Tall, crude, dms., c.l., works ... lb. .03 - —
tanks, works ..... lb. .02 - —
dist., dms., c.l., works ..... lb. .07¼- .07½
tanks, works ..... lb. .06 - —
refd., dms., c.l., works ..... lb. .06¼- —
l.c.l., works ..... lb. .06½- —
tanks, works ..... lb. .05 - .05¼
Tallow, acidless, dms ..... lb. .10¼- .10½
Oil, tangerine, Floridian, dms ... lb. 2.75 - 5.35
Tansy, dms. ..... lb. 7.75 - 9.00
Tar, pine, coml., dms., c.l., works. gal. .42½- —
l.c.l., works ..... gal. .50½- —
whse ..... lb. .0678- —
tanks, works ..... gal. .33½- —
rectified, NF, dms., incl., l.c.l., works, South. gal. .90 - —
whse., N.Y.C. ..... gal. 1.00 - —
Tar acid (see P)
Theobroma (see Cocoa butter).
Thyme, NF, red, cns., dms lb. 1.70 - 3.75
white, cns. ..... lb 1.95 - 4.00
tech., white, cns ..... lb. .40 - 1.85
Tung, dms., c.l., N. Y. ..... lb. .24 - —
l.c.l., same basis ..... lb. .24½- .24¾
tanks, N. Y. ..... lb. .22½- —
domestic mills ..... lb. .23½ Nom.
Turkey red (see Oil, castor, sulfonated).
Turpentine, NF, cns., dms ... lb. .90 - .45
Vetiver, Bourbon, cns ..... lb. 14.00 -17.50
Haitian, cns ..... lb. 11.80 -21.00
Java, cns. ..... lb. 22.50 -40.00
Wheat germ, 5-gal. dms .... gal. 10.00 -13.00
White mineral, tech., 50-65 vis., non-ret. dms., c.l., f.o.b. N. Y. gal. .51½- .54½
65-73 vis., non-ret., dms., c.l., same basis gal. .52½- .55
l.c.l., same basis gal. .57½- .58½
80-90 vis., non-ret., dms., c.l., same basis gal. .53¼- .56½
l.c.l., same basis gal. .58½- .59½
125-135 vis., non-ret., dms., c.l., same basis gal. .59½- .62½
l.c.l., same basis gal. .64½- .65½
145-155 vis., non-ret., dms., c.l., same basis gal. .66 - .68½
l.c.l., same basis gal. .71 - .71½
175-185 vis., non-ret., dms., c.l., same basis gal. .69½- .73
l.c.l., same basis gal. .74½- .75
Oil, white mineral, USP, 200-210 vis., non.-ret., dms., c.l., same basis gal. .73½- .75
l.c.l., same basis gal. .77½- .78
345-355 vis., non-ret., dms., c.l., same basis gal. .77 - .80
l.c.l., same basis gal. .83 - .85
Wintergreen, USP, nat., Northern, cns lb. 6.35 -10.30
Southern, cns lb. 3.20 -19.50
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, cns. ..... lb. 6.60 - 8.00
Wormwood, cns. ..... lb. 5.00 - 6.85
Ylang-ylang, Bourbon, bots .... lb. 17.00 -30.00
extra, bots ..... lb. 28.00 -40.00
Madagascar, bots ..... lb No stocks
Oleostearine, bbls. ..... lb. .14 - .14½
Opium, USP, cns ..... lb. 19.20 -19.45
gran., USP, cns ..... lb. 21.65 -21.90
powd., USP cns ..... lb. 21.65 -21.90
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies lb. 1.56 - —
Chrome, CP., bbls., dlvd. N of Tenn. and N. C., E. of Miss. R., include Davenport, Tenn., and E. of Minneapolis, Rock Island, St. Louis, St. Paul lb. .31 - —

Chrome orange prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport), 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., 1½c. El Paso, Tex., 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Dinitroaniline toner ..... lb. 1.30 - —
Mineral, American, bbls, l.c.l., works. lb. .2035- .2060
Molybdated, bbls. ..... lb. .44 - —
o-Nitroaniline toner, kgs ..... lb. 1.15 - —
Orange peel bitter, Haitian, bls lb. .14 - .16
sweet, bls ..... lb. .16 - .18
Orris root, Florentine, bls ..... lb. .45 - .50
powd., bbls., bxs ..... lb. .50 - .53
Verona bls ..... lb. .35 - .40
powdered, bbls., bxs .... lb. .40 - .45
Orthoaminobiphenyl (see o-Aminobiphenyl).
Orthoanisidin (see o-Anisidine).
Ortho-chloroanilin (see o-Chloroaniline).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde).
Orthochloroparanitroanilin (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroanilin (see o-Nitroaniline).
Orthonitrochlorobenzene (see 2-Nitro-4-chlorobenzene).
Orthonitrobiphenyl (see o-Nitrobiphenyl).
Orthonitroparachlorophenol (see 2-Nitro-4-chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidin (see o-Phenetidine).
Orthophenetidin (see o-Phenetidine).
Ortho-tertiary-amylphenol (see o-tert-Amylphenol).
Orthotolidin (see o-Tolidine base).
Orthotoluidin (see o-Toluidine).
Osage orange, crystals, No. 1, bbls., l.c.l lb. .40 - —
extract, liquid, No. 1, bbls., l.c.l lb. .19 - —
Ouabain, USP, bots ..... gram 3.00 - 4.00
Oxyquinolin sulfate, cns., 100-lb. lots, works lb. 4.75 - 5.00
smaller lots, works ..... lb. 4.92 - 5.17

## P

Pancreas substance, assay 1:75 bots., 5-lb. lots or more lb. 4.00 - —
Pancreatin, USP, bots ..... lb. 1.90 - 2.10
Papain, USP, African, bots ..... lb. 4.00 - 4.50
Ceylon ..... lb. 3.00 - 3.50
Papaverine, nat. or syn. hydrochloride, USP, cns., 25 oz. to 100 oz. lots .. oz. 5.00 - —
smaller lots ..... oz 5.05 - 5.20
Sulfate, cns. ..... oz. 7.10 - 7.35
Paprika, Roumanian, bgs. ..... lb. .31 - .33
Spanish, bgs. ..... lb. .37 - .39
Yugoslavian, bgs. ..... lb. .38 - —
Para-anisidin (see p-Anisidine).
Para-acetylaminobenzaldehyde thiosemicarbazone (see p-Acetylaminobenzaldehyde thiosemicarbazone).
Para-aminophenol (see p-Aminophenol).
Parachloroanilin (see p-Chloroaniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Parachloro-orthonitroanilin (see 4-Chloro-2-nitroaniline).
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Paraffin, crude scale, white, 121°-123°F, ASTM, solid, c.l., ref'y lb. .0710- —
fully refd., 122°-124°F, ASTM, slabs loose, c.l., ref'y lb. .0845- —
125°-127°F, ASTM, slabs loose, c.l., ref'y lb. .0845- —
130°-132°F., ASTM, slabs loose, c.l., ref'y lb. .0855- —
132°-134°, ASTM, slabs, loose, c.l., ref'y lb. .0855- —
135°-137°F., ASTM, slabs loose, c.l., ref'y lb. .0855- —

Prices for paraffin in bags and ctns., c.l. 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs., 3.7c. per lb. higher.

AMP temperatures are an arbitrary 3° F. higher than ASTM.

Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld. lb. .10¾- —
l.c.l., frt. alld ..... lb. .12¼- —
powd., bgs., c.l., frt. alld. lb. .15½- —
l.c.l., frt. alld ..... lb. .17 - —
USP X, fib, dms., ca ..... lb. .183 - —
10,000-lb. lots ..... lb. .183 - —
1,000-lb. lots ..... lb. .193 - —
smaller lots ..... lb. .208 - —
Paraldehyde, tech., 98%, 55-gal. dms., c.l. works. lb. .13½- —
l.c.l., works ..... lb. .14½- —
tanks, works ..... lb. .11½- —
Paranitroanilin (see p-Nitroaniline).
Paranitrochlorobenzene (see 4-Nitro-2-chlorobenzene).
Paranitrophenol (see p-Nitrophenol).
Paranitrotoluene (see p-Nitrotoluene).
Paraphenetidin (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion, spray powder, 15%, dealers, dms., works. lb. .48 - .49
tech., dms., works ..... lb. 1.62 - 1.64
Paratoluenesulphonamide (see p-Toluenesulfonamide).
Paratoluidine (see p-Toluidine).
Paris green, dealer, distributor, dms., c.l., works, frt. alld. on 96 lbs. or over lb. .36 - .40
l.c.l., same basis ..... lb. .37 - .53
Passion flower herb, bls ..... lb .20 - .21
Peanut meal, 45%, old process, bgs., mills .. ton. 78.00 Nom.

# carbonate of potash

**purity and uniformity**

Control of production all the way through mining and refining of the raw material to final manufacturing of the finished product gives you a plus value when you depend on *International* for your supplies of carbonate of potash. You can be sure of the grade, density, particle size, purity and uniformity you must have for the production of fine glass, chemicals, pharmaceuticals, textiles and other products. And in addition, because of *International's* complete control of production, you can be sure of continuing supplies to your specifications, in tonnages you require and with deliveries to your schedules.

**LIQUID**—47 to 48%. Available in 475 lb. drums and tank cars.

**HYDRATED**—83 to 85%. Available in 100 lb. bags and 400 lb. barrels.

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LIQUID CHLORINE

MURIATIC ACID

**INTERNATIONAL MINERALS & CHEMICAL CORPORATION**

*Address all inquiries to Industrial Sales Dept., Potash Division*
*General Offices: 20 North Wacker Drive, Chicago 6*
*61 Broadway, New York 6*
*Midland, Texas*

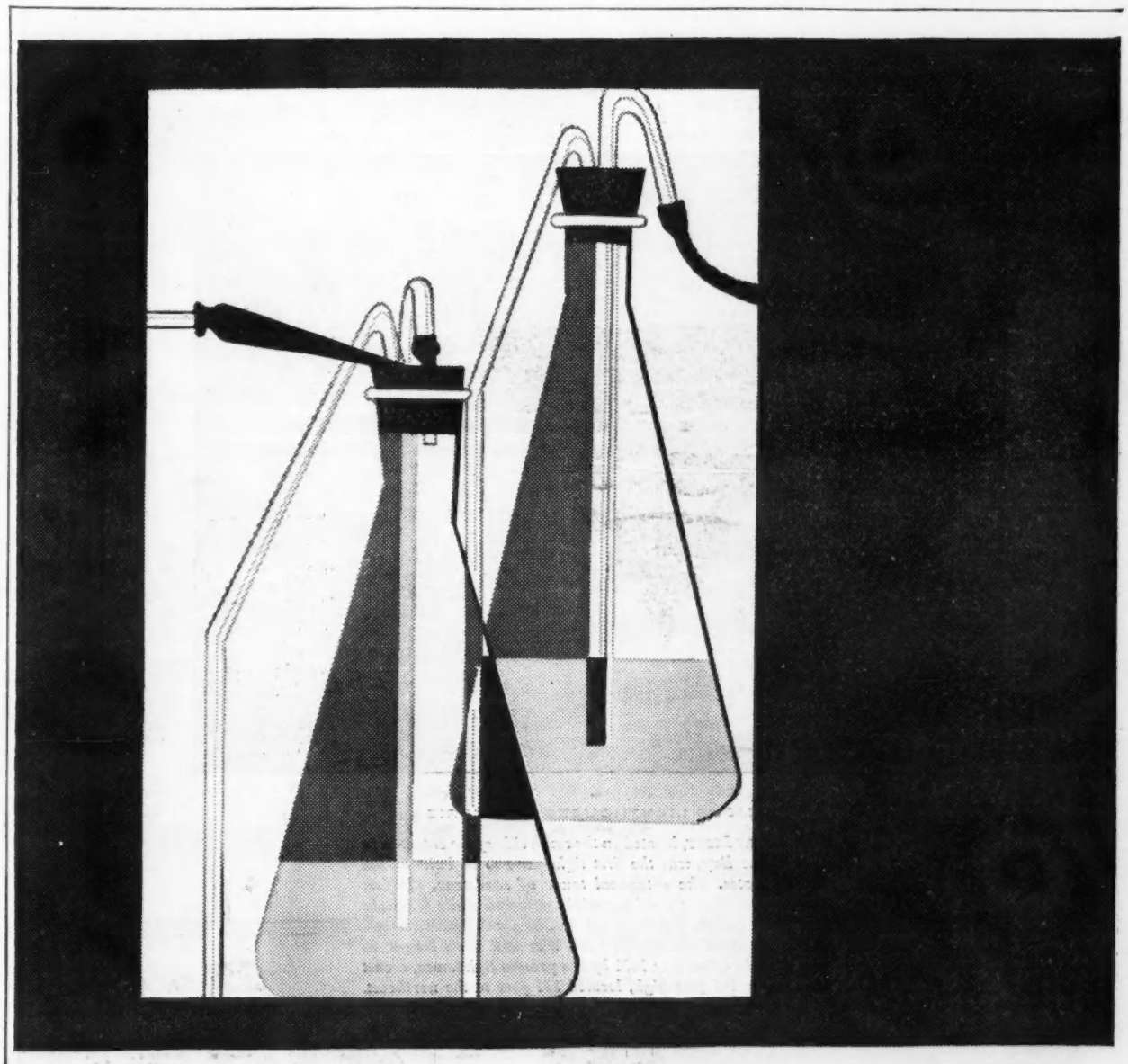
Pectin, citrous, NF, powd., bbls lb 2.05 - 2.06
tech. powd bbls lb 1.80 - —
imported, Danish, ex whse ...lb. 1.28 - —
Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units. .07½- .08
Procaine, bulk, 1,000,000 units. .07½- .08
Sodium, sterile, bulk, 1,000,000 units. .07½- .08
Pentachlorophenol, dms., c.l., works, frt. equald lb. .21 —
l.c.l., same basis lb. .24 - .29
truckload, 20,000 lbs. min. same basis lb. .21¼- —
Pentaerythritol, tech., bgs., c.l., works lb. .32 - —
l.c.l., works lb. .33 - —
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, industrial, tanks, Tex. refy gal. .14¼- —
Pepper, black, Malabar, spot, bgs lb. .58 - .59
red, Gondar, spot, bgs lb. .29 - .30
Japanese, hontaka, bgs lb. .35 - —
birdseyes, bgs., new crop lb. .60 - —
Mombasa, bgs., ship't lb. .26 - —
Nigerian, bgs lb. Nominal.
Turkish, bgs. lb. .26 - —
Zanzibar, bgs. lb. No prices.
white, bgs. lb. .68 - .69
Peppermint leaves, USP, dom., bls., dms lb. .70 - .75
imported, bls. lb. 1.25 - —
Pepsin, NF, 1:3,000 bulk lb. 3.45 - 3.50
Perchloroethylene, dms., c.l., or truckloads, dlvd. E dm.85.00 - —
dlvd. W dm.88.50 - —
l.c.l., dlvd. E dm.93.00 - —
dlvd., W dm.98.50 - —
tanks, dlvd. E lb. .10¾- —
dlvd. W lb. .11¼- —
Peru balsam, dms lb. 1.30 - 1.70
Petrolatum, amber, dms., c.l., refy. lb. .05 - .05¾
l.c.l., dlvd lb. .06¼- .07
tanks, refy lb. .03¼- .04⅛
cream, dms., c.l., refy lb. .06⅛- .07⅛
l.c.l., dlvd lb. .08½- .08¾
tanks, refy lb. .04⅝- .05⅛
extra, amber, dms., c.l., rfy. lb. .05¼- .05⅞
l.c.l., dlvd lb. .07 - .07¼
tanks, refy lb. .03½- .04⅛
USP, white lily, dms., c.l., refy lb. .06⅝- .07½
l.c.l., dlvd lb. .08⅞- .09⅛
tanks, refy lb. .04⅞- .06
snow, dms., c.l., refy lb. .07⅛- .07¾
l.c.l., dlvd lb. .09⅝- .09⅞
tanks, refy lb. .05⅝- .05⅞
soft, dms., c.l., refy lb. .06¾- .07¾
l.c.l., dlvd lb. .08½- .08¾
tanks, refy lb. .05 - .05⅞
yellow, soft, dms., c.l., refy. lb. .05¼- .05⅞
l.c.l., dlvd lb. .06⅞- .07⅛
tanks, refy lb. .03½- .05⅞
Petroleum, crude, bulk, at wells, California bbl. 1.42 - 3.53
Illinois bbl. 2.69 - 2.90
Kentucky bbl. 2.62 - 2.90
Louisiana-Arkansas bbl. 2.38 - 3.23
Montana bbl. 1.53 - 2.90
Oklahoma-Kansas bbl. 2.48 - 2.90
Pennsylvania, Penn. grade. bbl. 2.70 - 3.23
Texas, East bbl. 2.90 - —
Gulf Coast bbl. 2.63 - 3.23
North, North-Central bbl. 2.48 - 2.90
Panhandle bbl. 2.48 - 2.90
West bbl. 2.35 - 2.90
Wyoming bbl. 1.53 - 2.90
fuel oil, bunker C, No. 6, East Coast, Baltimore, Md. bbl. 2.25 - —
Boston, Mass. bbl. 2.29 - —
Charleston, S. C. bbl. 2.20 - —
Jacksonville, Fla bbl. 2.18 - —
New York Harbor bbl. 2.25 - 2.28
Norfolk, Va. bbl. 2.23 - —
Philadelphia, Pa. bbl. 2.20 - 2.22
Portland, Me. bbl. 2.32 - —
Providence, R. I. bbl. 2.29 - —
Savannah, Ga. bbl. 2.23 - —
West Coast bbl. 1.80 - 2.10
diesel, tanks, refy., California. gal. .1025- .133
New York gal. .096 - —
Penna., western gal. .105 - .1075
furnace, tanks, refy., Arkansas, No. 2 gal. .08625 - —
No. 3 gal. .0825- —
N. Y. Harbor, No. 2 gal. .092 - .096
Group 3, No. 1 gal. .08875- .09
No. 2 gal. .0825- .08375
No. 3 gal. .07875- .08125
range gal. .08875- .09375
Pennsylvania, western, No. 1, gal. .105 - .1185
No. 2 gal. .105 - .111
No. 3 gal. .105 - .1075
Lacquer diluent, 150°-240°F., b.r., tanks, West Coast, ex tax, Los Angeles gal. .169 - .204
East coast, N. J., N. Y. gal. .19 - —
Group 3, benzol-type gal. .14125- .14625
toluol-type gal. .13125- .13375
Mineral spirits, reg., tanks, California, ex tax, San Francisco gal. .164 - —
East coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .11875- —
tankwagon, Boston gal. .19 - —
Buffalo gal. .195 - —
Chicago gal. .279 - —
Cleveland gal. .22 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Providence gal. .195 - —
specially refd., tanks, refy., Watson, Calif. gal. .245 - —
Borger, Tex. gal. .24 - —
Houston, Tex. gal. .24 - —
Wood River, Ill. gal. .2625- —
dlvd. N. J. gal. .32 - —
dlvd. N. Y. gal. .33½- —
tankwagon, N. J., dlvd. gal. .36 - —
N. Y., dlvd. gal. .37 - —
Naphtha, cleaners, tanks, East Coast, N. J., and N. Y. gal. .17 - —
Group 3 gal. .12875- —
tankwagon, Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
High solvency (see Petroleum sovlent, partial aromatic).
V.M.&P., 225°-300°F., b.r., tanks, West Coast, Los Angeles. gal. .169 - —
Portland, Ore. gal. .175 - —
San Francisco gal. .174 - —
Seattle, Wash. gal. .175 - —
East Coast, N. J., N.Y. gal. .18 - —
Group 3 gal. .12875- —
tankwagon, Boston gal. .205 - —
Chicago gal. .289 - —
Cleveland gal. .23 - —
Newark gal. .193 - —
New York gal. .195 - —
Philadelphia gal. .20 - —
Pittsburgh gal. .19 - —
Solvent, partial aromatic, tanks, East Coast, N. J., N. Y., 205°-284° F., b.r., 38° 43°C. m.a.p. gal. .24 - .26
19°-30°C. m.a.p. gal. .19 - .30

Petroleum solvent, partial aromatic, 272°-387°, b.r., 31°C. m.a.p., gal. .29 - —
27°-29°C, m.a.p gal. .29 - .31
19°C., m.a.p gal. .32 - —
310°-392°F. b.r., 30°-38°C. m.a.p. gal. .27 - .30
17°-19°C., m.a.p gal. .35 - .38
350°-425° F., b.r., 32°-35° C., m.a.p gal. .30 - .30½
25°C., m.a.p gal. .39 - —
18°-21°C., m.a.p gal. .35 - .42½
Rubber, tanks, Cal., ex tax, San Francisco gal. .173 - —
East Coast, N. J., N. Y., gal. .18 - —
Group 3 gal. .12875- —
Stoddard, tanks, East Coast, N. J., N. Y gal. .17 - —
Group 3 gal. .12375- —
Pennsylvania, western gal. .15 - —
tankwagon, Boston gal. .19 - —
Chicago gal. .289 - —
Cleveland gal. .22 - —
Los Angeles, ex tax gal. .194 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Sulfonate, oil soluble, 60-62% sulfonic content, non-ref. dms., c.l., works lb. .16 - .18¼
l.c.l. works lb. .17 - .18½
tanks, works lb. .14 - .16½
50-55% sulfonic content, non-ref. dms., c.l., works lb. .15½- —
l.c.l., works lb. .16½- —
tanks, works lb. .12½- —
o-Phenetidine, dms., works lb. 1.00 - —
p-Phenetidine, dms., works lb. 1.00 - —
Phenobarbital, USP, dms., 100-lb. lots lb. 4.00 - —
Phenobarbital-sodium, USP, dms., 100-lb. lots lb. 4.00 - —

Phenol, 90-92% (cresol 8-10%), non-ret. dms. c.l. frt alld E. of Rockies lb. .15¾- —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .14 - —
82-84% (cresol 16-18%), non-ret. drums, c.l., same basis lb. .15¼- —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13½- —
39° or above, tar distilled, non-ret. dms., c.l., same basis lb. .17¼- .17¾
l.c.l., same basis lb. .18 - .18½
tanks, same basis lb. .15½ —
USP, synthetic, dms., c.l., frt. alld lb. .17¾- —
l.c.l., same basis lb. .18½- —
tanks, same oasis lb. .16 - —
Phenolphthalein, USP, or yellow, bbls., dms., 2,000-lb. lots. lb. 1.10 - —
smaller lots lb. 1.12 - 1.17
Phenothiazine, NF, fib. dms., c.l., frt. adjusted lb. .53 - —
over 2,100 lbs., same basis lb. .55 - —
less than 2,100 lbs., same basis. lb. .57 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Salicylate (see Salol.)
Phenylacetaldehyde, soln., 50%, bots lb. 2.40 - 2.70
100%, bots lb. 4.00 - 4.65
Phenylacetamide, 125-lb. dms., works lb. 1.10 - —
smaller dms., works lb. 1.15 - 1.10
dl-Phenylalanine, dms., works lb. 27.00 -37.50
1-Phenyl-3-carbethoxy pyrazolone-5, 250-lb. fib. dms., dlvd. E lb. 3.60 - —
smaller dms., dlvd. E lb. 4.00 - —



Phenyldiethanolamine dms. c.l. dlvd E. lb. .40 - —
l.c.l., dlvd E lb. .41 - —
m-Phenylenediamine, dms., frt. alld. lb. .90 - —
p-Phenylenediamine, redist., dms., works lb. 2.00 - —
tech., refd., dms., same basis lb. 1.10 - 1.35
Phenylethanolamine, d m s., c.l., works lb. .69⅛ —
l.c.l. same basis lb. .70 —
Phenylethyl acetate, bots lb. 1.35 1.95
b-Phenylethylamine, dms., works, 1,000-lb. lots lb. 1.10 —
smaller lots, works lb. 1.15 1.40
Phenylethylphenyl acetate, bots lb 3.95 4.40
Phenylhydrazine base, CP, bots lb. 3.00 3.07
Hydrochloride, coml., kgs., works. lb. 1.75 - —
purif., bots., works lb. 5.17 - —
1-Phenyl-3-methyl pyrazolone-5, 250-lb. lots, dlvd. E lb. 1.70 - —
smaller lots, dlvd lb. 2.00 - —
o-Phenylphenol, dms., l.c.l., works lb. .42 - .44
p-Phenylphenol, bgs., c.l., works lb. .35 - —
l.c.l., works lb. .39½- —
Phloroglucinol, coml., fib. dms., works lb. 6.40 - —
C.P., bots., fib. dms., works lb. 17.00 -17.25
tech., fib. dms., works lb. 10.45 - —
Phosphate, defluorinated (see under D).
Rock, Curacao, Atlantic ports, New Orleans ton. 43.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 68-66%, b.p.l., bulk, c.l., mines long-ton. 4.69 - —
70-68%, b.p.l., c.l., same basis long-ton. 5.09 - —

In industrial finishing specify **PENOLA SOLVENTS**

for assured high quality

**Penola Solvents offer all of these important advantages**

- Uniformity
- Controlled Evaporation
- Balanced Solvency
- Purity
- Special Handling
- Immediate availability

**FOR YOUR INDUSTRIAL FINISHING NEEDS** — always be sure to specify PENOLA Solvents.

**FOR EXPERT TECHNICAL ASSISTANCE** — always be sure to call the Penola Office nearest you for any technical data or assistance regarding your industrial finishing problems.

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PENOLA OIL COMPANY · NEW YORK · DETROIT · CHICAGO

## Phosphate Rock, Florida—Propylene Oxide

Phosphate rock, Florida, land pebble, washed, dried, ungrd., 72-76% o.p.l., c.s., same basis long-ton. 5.74 - —
75%-74% b.p.l. c.l., same basis long-ton. 6.74 - —
76-76%, b.p.l., c.l., same basis long ton. 7.74 - —

The above prices are based on fuel oil at $2.15 per bbl. and labor at $1.28, recent 3c. labor advance currently absorbed.

Phosphorus amorph., red, cs.... lb. .46 - .47
dms. lb 44 .45
yellow, cns., works..... lb. 48 - .50
dms., c.l., works..... lb. .40 - —
l.c.l., works..... lb. 43 - —
Oxychloride, dms., c.l., works lb. .14 - —
l.c.l., dms., works lb. .17 - —
tanks, works..... lb. .12½- —
Pentasulfide, sond, dms., c.l., works lb. .11½- —
l.c.l., dms., works lb. .13 .13½
Pentoxide, dms., c.l., works lb. .13½ - —
l.c.l. works lb. .16½ - —
Sesquisulfide, tins, cs., works lb. .29 - —
export, dms. lb. .31 .36
Trichloride, dms., c.l., works.. lb. .14 - —
l.c.l. works lb. .17 - —
tankcars, works lb. .12½ - —
Phthalic anhydride, ogs, c.l., works, frt. equald lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .19¼ - —
Phthalimide, 97%-98%, dms., works, frt. alld lb. .65 - .70
a-Picoline, ret., dms., c.l., works, frt. equald lb. .43½ - —
l.c.l., works, frt. equald lb. .44 - —

b,g-Picoline, 5°, dms., c.l., works. lb. .32½- —
l.c.l., works lb. .33 - —
g-Picoline, 98%, dms., c.l., works. lb. 2.65 - —
Pilocarpine hydrochloride, NF, bots oz. 5.25 - —
Nitrate, USP, bots., vials oz. 4.80 - 4.90
Pimento, Jamaican, bgs., Sept. shipt. lb. .78 - .80
Mexican, bgs. lb. .72 - .75
Pink root, bls. lb. 3.00 - 3.25
d-Piperazine hexahydrate, French Codex, bots kilo. 8.00 - 8.50
Piperidine, 98%, dms. frt. equald. lb. 2.90 - 3.00
Piperonyl butoxide, dms., dlvd. E lb 4.50 - 5.30
Cyclonene, dms., dlvd. E lb. 4.20 - 4.50
Pitch, coaltar, 140°-150°F, m.p. bulk, tanks, works ton.35.50 - —
Cottonseed, raw, dms., works lb. .02¼- .03
Linseed dms lb. .06 Nom.
Marine, dms. lb. .04¼ - .05
Petroleum (see Asphalt, petroleum)
Soybean dms. works lb .05 Nom
Tall, dms., works lb. .03¾ - .04⅛
Plaster of Paris (see Gypsum).
Platinum metal, works oz.84.00 -87.00
Pleurisy root, bls ro .45 - .50
Podophyllum resin, NF, dms lb 6.75 - —
Poke root, bls lb. .19 - .22
Polymyxin, bulk, dms., bots., 50 billion units or more, 1,000,000 units. .52 - —
25-50 billion units 1,000,000 units. .54 - —
1-25 billion units 1,000,000 units. .56 - —

Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000-lb. lots, works. lb. .43 - —
smaller lots, works lb. .46 - .48
tristearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000 lb. lots, works. lb. .43 - —
smaller lots, works lb. .46 - .48
Poppy seed, Argentine, bgs. lb. Nominal.
Polish, bgs. lb. .36 - .36½
Dutch, bgs. lb. .38½ - .39
Turkish, bgs. lb. .33½ - .34
Potash, caustic, reg., flake, 88-92%, dms., c.l., works 100 lbs. 9.15 -
l.c.l., works 100 lbs.10.20 - —
liq., 45% basis, dms., c.l., works 100 lbs. 4.25 - —
l.c.l., same basis 100 lbs. 5.05 - —
tanks, same basis 100 lbs. 3.70 - —
solid, 88-92%, dms., c.l., works 100 lbs. 8.70 - —
l.c.l., works 100 lbs. 9.75 - —
Potassium acetate, NF, dms lb. .31 - .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd., dms. lb. .24 - —
Bichromate, bgs., c.l., works lb. .15 - —
l.c.l., works lb. .15½- —
Potassium bichromate in dms. ½c. higher.
Bitartrate, NF, dom., gran. or powd., bbls., 5,000 lbs. 1 shipt. lb. .32½- —
smaller lots lb. .33 - .36
dms., c.l. lb. .32 - —
imp., kgs lb. .25 - .26
Bromate, bbls., 1,000 lbs. or more. lb. .50 - .52
25-200-lb. lots lb. .55 - .57
Bromide, USP, gran., bbls., kgs. lb. .34 - —

Potassium carbonate, tech., calcined, bbls., c.l., works 100 lbs. 9.00 - —
l.c.l., same basis 100 lbs.10.05 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
USP, gran., bbls., dms lb. .16½- .18
powd., bbls., dms lb. .21 - .23
Chlorate, cryst., dms., c.l., works. lb. .10¼- —
l.c.l., works lb. .11½- .12
powd., dms., c.l., works lb. .10¾- —
l.c.l. works lb. .12 - 12½
export, dms., New York lb. .12¾- .13½
NF gran. dms lb .32 .33
Chloride, USP, cryst., dms lb. .21 - .23
gran., dms lb. .15 .17
powd. dms lb .24 .26
Chromate, tech., bgs lb. .50 - .50½
Citrate, USP gran., dms lb. .41 - —
powder, dms lb. .40½- .41½
Cyanide, dms., 500-lb. lots or more, works lb. .55 - —
smaller lots, works lb .57 - —
Dichromate (see Potassium bichromate).
Ferricyanide, kgs lb. .60 .63
Ferrocyanide, dms., ton lots lb. .22½- —
smaller lots lb. .23 - —
kgs. lb. .28 - —
Potassium fluoborate, fib. dms., c.l., works lb. .30 - —
l.c.l., works lb. .31 - —
Fluoride, dms., works lb. .37 - .38
Gluconate dms lb .75 .79
Glycerophosphate, 75% solution, cbys lb. 2.15 - 2.25
Guaiacolsulfonate, NF, dms lb. 2.10 - 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb. dms. 1 to 100-dm. lots lb. .28½- .33
Hypophosphite, NF, fib. dms., ton lots or less lb 1.00 1.03
Iodide, dms lb. 1.90 - 1.95
Manure salt 22% $K_2O$, bulk, mines unit-ton. .19 - —
Metabisulfite, gran., dms lb. .20 - .21
powd dms lb .25 -
Muriate, dom., 50-60% $K_2O$, bulk, Carlsbad, N. M. unit-ton. .39½- .40½
50-51% $K_2O$ paper bgs. Carlsbad, N. M ton.24.50 - —
Nitrate, cryst., bbls., 10,000-ton lots 100 lbs.14.40 - —
smaller lots 100 lbs.14.65 -14.90
gran., bbls., 20-ton lots.100 lbs. 9.75 - —
smaller lots 100 lbs.11.10 -11.50
powd., bbls., 20-ton lots. 100 lbs.10.75 - —
smaller lots 100 lbs.12.00 -12.50
NF, gran., dms lb. .09¾- .11¾

Potassium nitrate in bags, 50c. per 100 lbs. less in kegs, $1 more.

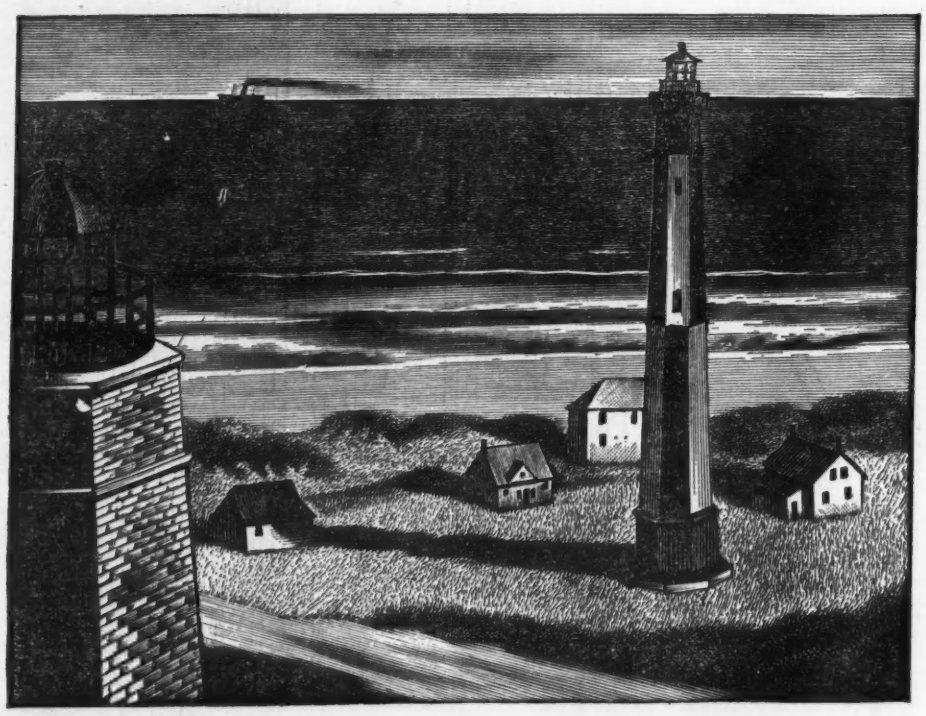
Oxalate, neutral, tech., fine gran., bbls., dms lb. .30 - .32
Pentaborate, gran., bgs., c.l., works ton.189.00 - —
dms., ton lots, ex whse ton.293.50 - —
smaller lots, ex whse ton.29800 - —

Powdered Potassium permonorate, $10.25 per ton higher

Perchlorate, dms., c.l., works lb. .15 - —
l.c.l., works lb. .16½- —
Permanganate, tech., dms., works lb. .22½- .23¼
USP dms. works lb. .24½ .30¼
Persulfate, dms., 5-ton lots, works, lb. .18 - —
1-ton lots, works lb. .20 - —
Phosphate, tetrabasic, bbls., works lb. .16½- .18¼
Prussiate, red (see Potassium Ferricyanide).
yellow (see Potassium Ferrocyanide).
Silicate, glass, bgs., c.l., works. 100 lbs.17.00 - —
l.c.l. 100 lbs 17.80 - —
Silicate, soln., clarif., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.80 - —
l.c.l., 5 dms., or more, works 100 lbs 6.55 - —
tanks, works 100 lbs. 5.45 - —
tech., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.35 - —
l.c.l., 5 dms. or more, works 100 lbs. 6.50 - —
tanks, works 100 lbs. 5.00 - —
40.5° Be., 1:2.0, dms., c.l., works 100 lbs. 6.45 - —
l.c.l., 5 dms. or more, works 100 lbs. 7.20 - 7.60
tanks, works 100 lbs. 6.10 - —
Silicofluoride, bbls., works lb. .09 - .10
Stannate, dms., frt. alld. E lb. .678 - .744
Sulfate, agricultural, 49-51% $K_2O$, bulk, works ton.35.00 - —
NF VII cryst. dms lb 31 - .33
gran. dms. lb. .18½- —
powder dms lb. .36½- .17
Sulfocyanide, NF, cryst. (see Potassium thiocyanate).
Thiocyanate, NF, cryst., dms. lb. .84 - .94
tech., works lb. .77 - .79
Titanate, cns., c.l., works lb. .14 - —
5-ton lots, works lb. .14½- —
1-ton lot or less, works lb. .14¾- —
Potassium-magnesium sulfate, bulk, works basis 40% $K_2SO_4$, 18% MgO ton.15.05 - —
Potassium-sodium tartrate, NF, gran., powd., dms., c.l. lb. .32½- —
5,000-lb. lots lb. .33 - —
smaller lots lb. .33½- .38⅛
Potassium-titanium fluoride, fib. dms., works lb. .39 - .40
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 - —
l.c.l., works lb. .52½- .55
Pregnenolone, bots gram. .60 - —
Acetate, bots gram. .55 - —
Progesterone, USP, bots., 100 gram lots gram. .65 - —
Acetate, bots gram. .70 - —
Procaine hydrochloride, USP, 1,000-lb. lots, dms., frt. alld lb. 2.90 - —
100-lb lots lb. 3.60 - —
Propane, indust., tanks, group 3. gal. .03½- —
N. Y. Harbor gal. .08 - —
n-Propyl acetate, dms., c.l., dlvd lb. .12¾- —
l.c.l., dlvd lb. .13¾- —
tanks, dlvd lb. .1075- —
Gallate, dms., 100 to 2,650-lb. lots works lb 3.90 4.40
p-Hydroxybenzoate, USP, dms lb. 2.30 -2.40
Thiouracil, bots., 50-kilo lots or more kilo.55.00 —
smaller lots kilo.55.10 -55.30
Propylene dichloride, dms., c.l., dlvd. E lb. .0845- —
l.c.l., same basis lb. .095 - —
tanks, same basis lb. .07 - —

Prices in West 1c. higher dlvd., on same basis.

Glycol, industrial, dms., c.l., dlvd. E lb. .14¾- —
l.c.l., same basis lb. .15¾- —
tanks, same basis lb. .13 - —
USP, dms., c.l., dlvd. E lb. .16¾- —
l.c.l., same basis lb. .17¾- —
tanks, same basis lb. .15 - —
Methyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½- —
Oxide, dms., c.l., dlvd. E lb. .17 - —
E lb. .17 - —
tanks, dlvd. E lb. .15 - —
l.c.l., dlvd. E lb. .19 - —

FAMOUS LIGHTHOUSES OF AMERICA

*CAPE HENRY LIGHT, located on the south side of the entrance to Chesapeake Bay, was the first lighthouse to be built by the United States. The octagonal tower of sandstone, 129 feet high, was constructed of materials gathered while Virginia was still a colony. This original structure still stands, though it was damaged during the Civil War and is no longer in use. It was replaced in 1881 by the present lighthouse, a cast iron tower 167 feet high, located 337 feet to the northeast.*

**Pointing the way** to progress in the development and use of electrochemicals is the pioneering research of Niagara Alkali Company. Niagara was the first in the country to produce several of these important materials and through research is constantly improving the usefulness of Nialk® Liquid Chlorine, Nialk Caustic Potash, Nialk Carbonate of Potash, Nialk Caustic Soda, Nialk Paradichlorobenzene, Nialk TRICHLORethylene, Niagathal® (Tetrachloro Phthalic Anhydride).

**NIAGARA ALKALI COMPANY**
60 East 42nd Street, New York 17, N. Y.

| | | | |
|---|---|---|---|
| Psyllium seed, black, bgs | lb. | .80 | — |
| blonde, bgs. | lb. | .18 | 20 |
| husks, bgs. | lb. | .45 | 50 |
| Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots | lb. | .02⅝ | 04¼ |
| smaller lots | lb. | .03⅞ | 04½ |
| imp., Italian, silk-screen, coarse, bgs., ton lots | lb. | .06½ | — |
| fine, bgs, ton lots | lb. | .04 | — |
| sun dried coarse bgs ton lots | lb. | .02½ | 04 |
| fine bgs., ton lots | lb. | .02½ | 04 |
| Pumice in bbls is ½c per lb higher | | | |
| Pumpkin seed, bgs | lb. | .25 | 28 |
| Pyrethrin, syn., (see Allethrin). | | | |
| Pyrethrum flowers, fine grd 0.9% pyrethrins bbls works | lb. | .45 | — |
| powd., 1.3% pyrethrins, bbls., works | lb. | .65 | — |
| liq. (20 to 1) basis 2 grams pyrethrins per 100cc. odorless base, 50 dms., works | gal | 8.35 | — |
| 1-4 dms., works | gal | 8.35 | — |
| oleoresin, dewaxed, 20%, dms., works | lb. | 9.80 | 10.15 |
| purified, 20% dms., works | lb. | 10.00 | 10.10 |
| Pyridine, denaturing, dms., c.l., works and frt. equald | gal. | 2.77 | — |
| l.c.l., same basis | gal. | 2.80 | — |
| refd., 2°, non-ret, dms., l.c.l., same basis | lb. | .95 | — |
| Pyridoxine hydrochloride, bots., 100-gram lots | gram | .55 | — |
| Pyrites, Canadian, works long-ton | | 3.00 | 5.00 |
| Pyrocatechol (see Catechol) | | | |
| Pyrogallol, NF | lb. | 3.25 | 3.45 |
| Pyroxylin, scrap, ungrd., amber, dms., works | lb. | .20 | — |
| black, dms., works | lb. | .12 | — |
| mixed, mottled, cms., works | lb. | .13 | — |
| shavings, amber, cs., works | lb. | No stocks. | |
| mixed colors, dms., works | lb. | .11 | — |
| white, china, ivory, dms., works | lb. | .16 | — |
| dense, opaque, dms., works. | lb. | .12 | .15 |
| translucent pastels, cs., works. | lb. | .14 | — |
| transparent colorless, dms., works | lb. | .25 | — |
| colors, dms., works | lb. | .15 | — |
| USP, bots | lb. | 9.50 | — |

## Q

| | | | |
|---|---|---|---|
| Quassia chips | lb. | .17 | — |
| Quebracho extract, clarif., grd., 70% tannin bgs. c.l., | lb. | .16½ | .16¾ |
| liq., 35% tannin, bbls., works. | lb. | .08¼ | — |
| solid., clarif., 64% tannin, bgs., c.l., exdock, duty extra. | lb. | .12 23/64 | — |
| ord., 63% tannin, bgs., c.l., same basis | lb. | .11 21/32 | — |
| Quercitron extract, cryst., No. 1, bbls., l.c.l. | lb. | .40 | — |
| liq., No. 1, bbls., l.c.l. | lb. | .19 | — |
| Quicksilver (see Mercury metal). | | | |
| Quince seed, bgs | lb. | 2.00 | Nom. |
| Quinidine, NF, V cryst., cns., 100-oz. lots | oz. | 1.15 | — |
| powd. precip., cns., 100-oz. lots. | oz. | 1.17 | — |
| Sulfate, USP, cns., 100-oz. lots. | oz. | .87 | — |
| Quinine, NF, cns., 100-oz. lots | oz. | .54 | — |
| Bisulfate, USP, cns., 100-oz. lots | oz. | .37½ | — |
| Dihydrochloride USP cns | oz. | .54 | — |
| Ethylcarbonate, NF, cns., 100-oz. lots | oz. | .63½ | — |
| Hydrobromide NF cns. 50-oz cns. | oz. | .47½ | — |
| Hydrochloride, USP, cns., 100-oz. lots | oz. | .47½ | — |
| Phosphate NF, cns. 100-oz. lots | oz. | .61 | — |
| Salicylate NF, cns., 100-oz. lots | oz. | .53 | — |
| Sulfate, USP, cns., 100-oz. lots | oz. | .42 | — |
| Quinine and Urea hydrochloride NF, cns | oz. | .56 | — |
| Quinoline, dms., c.l., frt. equald | lb. | .50¾ | — |
| l.c.l. same basis | lb. | .51¼ | — |
| tanks, same basis | lb. | .50 | — |

## R

| | | | |
|---|---|---|---|
| R salt, paste, dms., frt. alld., 100% basis | lb. | .83 | — |
| powd., frt. alld, 100% basis | lb. | .88 | .93 |
| Rauwolfia serpentina root, powd., bbls., dms | lb. | 1.75 | — |
| Red, BON acid maroons, pure, bbls. | lb. | 1.75 | — |
| resinated, bbls | lb | 1.50 | — |
| arylid, deep shades, bbls | lb | 3.60 | — |
| light shades, bbls | lb | 2.75 | — |
| maroon, bbls | lb | 3.60 | 5.90 |
| Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies | lb. | 4.30 | — |
| light shade same basis | lb | 4.00 | — |
| medium shade, bbls., same basis | lb | 4.25 | — |
| medium-light shade, bbls., same basis | lb | 4.05 | — |
| orange shade, bbls., same basis | lb. | 3.95 | — |
| lithopone, deep shade, bbls., same basis | lb. | 1.93 | — |
| light shade, bbls. same basis | lb. | 1.70 | — |
| maroon shade, bbls., same basis | lb. | 2.05 | — |
| medium shade, bbls., same basis | lb. | 1.85 | — |
| medium-light shade, bbls., same basis | lb. | 1.77 | — |
| orange-red shade, bbls, same basis | lb. | 1.64 | — |
| Red cadmium lithopone all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c per lb higher ex whse. Los Angeles and San Francisco | | | |
| Carmine No. 40 (see Carmine). | | | |
| Dyes (see Dyes, coaltar). | | | |
| Eosin toner, bbls., works | lb. | 1.60 | — |
| Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N Y | lb. | .12¾ | — |
| Iron oxide, nat., 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., East St. Louis | lb. | .06 | — |
| syn. 98% ferric oxide, bgs., c.l., works | lb. | .12¾ | — |
| l.c.l., works | lb. | .13 | — |
| Lake C toner, alizarin, bbls., works | lb. | 1.10 | 1.20 |
| Lithol toner, bbls., works | lb. | .79 | — |
| rubine toner, pure, bbls., works. | lb. | 1.50 | — |
| resinated, bbls., works | lb. | 1.40 | — |
| Virginia type, bbls., works | lb. | 1.40 | — |
| Maroon toner, MNPT, kgs., works | lb. | 3.60 | — |
| 10,000-lb. lots, works | lb. | 4.22 | — |
| smaller lots, works | lb. | 4.24 | — |
| Metallic, bbls., c.l., works | lb. | .02½ | — |
| l.c.l., works | lb. | .02¾ | — |
| Naphthol ITR, bbls., works | lb. | 5.25 | — |
| Red, oxide (see Red iron oxide). | | | |
| Persian Gulf, bgs., c.l., works | lb. | .06¾ | — |
| l.c.l., works | lb. | .07 | — |
| Para toner, bbls | lb. | .95 | — |
| Chlorinated, kgs. | lb. | 1.10 | 1.15 |
| Phloxin toner (see Red eosin toner). | | | |
| Rhodamine, molybdated, PMA, kegs | lb. | 5.35 | — |
| tungstated, PTMA, works, kegs. | lb. | 5.95 | — |
| Spanish oxide, bbls., c.l., ex dock | lb. | .05¾ | — |
| l.c.l., ex dock | lb. | .08 | — |
| ex whse., New York | lb. | .06½ | — |
| Toluidine toner, deep shades, kgs., works | lb. | 1.50 | — |
| light shades, kgs., works | lb. | 1.50 | — |
| Turkey, bbls., works | lb. | .60 | — |
| Tuscan, bbls., frt. equald | lb. | .24½ | .25 |
| Venetian, 15%, bgs., works | lb. | .0350 | .037 |
| 20%, bgs., works | lb. | .0475 | — |
| 25%, bgs., works | lb. | .0525 | — |
| 30%, bgs., works | lb. | .0550 | — |
| 35%, bgs., works | lb. | .0575 | — |
| 40%, bgs works | lb | .0625 | — |
| Watchung-type, bbls | lb. | 1.95 | — |
| Red KB base (see 4-Chloro-2-aminotoluene). | | | |
| Red, precipitate (see Mercuric oxide, red). | | | |
| Red saunders, NF, powd., bbls | lb. | .35 | .40 |
| Resorcinol, tech. grade, dms., c.l., works | lb | 77½ | — |
| l.c.l., works | lb. | .78½ | — |
| USP, cryst dms. works | lb | 2.75 | — |
| powd dms. works | lb | 2.95 | — |
| Monoacetate, NF, dms | lb. | 3.00 | 3.25 |
| Rhatany root, bgs | lb. | .15 | .16 |
| Rhodinol, 5-lb. cans | lb. | 25.50 | 34.00 |
| Rhubarb root, China, whole, cs | lb | 75 | 85 |
| powd., bbls | lb. | .90 | .95 |
| India, whole bgs | lb. | .35 | 40 |
| powdered, bbls. | lb. | .43 | 45 |
| Riboflavin USP bots., dlvd kilo | | 100.00 | — |
| readily soluble, bots., dlvd kilo | | 130.00 | — |
| 5'-phosphate-sodium, 100-gram lots or more kilo | | 140.00 | — |
| Rochelle salt (see Potassium-sodium tartrate). | | | |
| Rosin gum and wood (see Naval Stores Protective Coatings market). | | | |
| Rotenone, CP, bbls., works | lb. | 20.00 | — |
| tech. bbls works | lb | 16.50 | — |
| Rottenstone, bgs., 5-ton lots, ex-whse | lb. | .03 | — |
| ton lots, same basis | lb. | .04 | — |
| Rutin, NF, fib dms 25-kilo lots | kilo. | 17.50 | 18.50 |
| 10 to 25-kilo lots | kilo. | 17.50 | 20.00 |
| 1 to 10-kilo lots | kilo. | 18.90 | 20.00 |
| Ryania, 100% powd., bgs., c.l., works. | lb. | .22 | — |
| l.c.l., same basis | lb. | .24 | — |

## S

| | | | |
|---|---|---|---|
| Sabadilla seed, powd., bbls | lb. | 45 | 45½ |
| activated ground with lime bbls | lb. | .30 | .32 |
| Saccharin, USP, gran., soluble, dms., 1000 lb lots | lb | 1.60 | — |
| smaller lots | lb | 1.70 | 1.80 |
| powd. soluble insoluble, dms. 1000 lb lots | lb | 1.65 | — |
| smaller lots | lb | 1.75 | 1.95 |
| Saffron Spanish, USP, tins | lb. | 28.00 | 30.00 |
| Safrol, dms | lb. | 1.25 | 1.50 |
| Sage, Cretan, bgs | lb. | .11 | — |
| Dalmatian, bgs. | lb. | .42 | .43 |
| Italian, bgs. | lb. | .15 | — |
| Sago flour, raw, bgs | lb. | .06¾ | .07 |
| refined, bgs | lb. | .08½ | .09 |
| Sal soda (see Soda sal). | | | |
| Salol, NF, gran., bbls., kgs | lb. | 1.10 | — |
| Powdered salol, 25c., higher | | | |
| Salt, rock, paper bgs., c.l. 100 lbs. | | .98 | — |
| fable, vacuum common, fine, paper bgs c.l 100 lbs | | 1.12 | — |
| Saltcake, dom., bulk, works, 100% $Na_2SO_4$ basis | ton. | 24.00 | 28.00 |
| Saltpeter (see Potassium nitrate. | | | |
| Sandalwood, East Indies, chips bgs. | | .65 | 68 |
| powd., fib. dms | lb. | .75 | .76 |
| Sanguinarine nitrate lots | oz. | 4.75 | 5.50 |
| Santonin, NF, dom cryst. powd. cns., dms | lb. | 76.50 | 80.00 |
| imported cryst. powd cns | lb | 76.50 | 80.00 |
| Sarsaparilla root, dom., bls | lb. | .45 | .50 |
| imp., Honduras, bls | lb. | .45 | Nom. |
| Mexican bls | lb. | .35 | Nom. |
| Sassafras root bark, ord., bls | lb. | .45 | — |
| select, bls | lb. | .65 | — |
| Schaeffer's salt, paste, dms., frt. alld., 100% basis | lb. | .95 | — |
| powder bgs frt alld | lb. | .95 | — |
| Scopolamine hydrobromide, USP, bots | oz. | 12.25 | 12.50 |
| Seidlitz mixture, bbls., 5,000-lb. lots | lb. | 30½ | — |
| smaller lots | lb | 31 | 32 |
| Selenium, powd., dms., dlvd. | lb. | 5.00 | 6.00 |
| Senega root, bls | lb. | 3.00 | 3.30 |
| Senna leaves, Alex., whole and half, bls | lb. | .19 | — |
| siftings | lb. | .17 | — |
| Tinnevelly, No. 1, bls | lb. | .16 | .18 |
| No. 2, bls. | lb. | .13 | .15 |
| No. 3, bls. | lb. | .11 | .13 |
| powdered, bbls., bxs | lb. | .18 | — |
| pods, bls. | lb | 14 | — |
| Serpentaria root, bls | lb. | 4.25 | — |

# Industrial Chemicals with "Service Dividends"

Many users of SOLVAY chemicals consider the practical assistance they receive from SOLVAY'S Technical Service a "Service Dividend."

SOLVAY'S many Technical Service Sections with *separate* groups for *different* industries can offer services not ordinarily available because:

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Soda Ash • Snowflake® Crystals • Potassium Carbonate • Calcium Chloride
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Sodium Nitrite • Ammonium Chloride • Chlorine • Caustic Soda • Monochlorobenzene
Para-dichlorobenzene • Chloroform • Ortho-dichlorobenzene • Methylene Chloride
Methyl Chloride • Carbon Tetrachloride

## Sesame Seed—Sodium Phenolsulfonate

Sesame seed, Nicaragua, hulled, ship't, bgs lb. .25 - .26
nat., bgs. lb. .17½- —
Salvadorian, natural lb. Nominal
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .56 - —
bbls., 1,500-lb. lots lb. .57 - —
kgs., 1,500-lb. lots lb. .59 - —
refd., bgs., 1,500-lb. lots lb. .66 - —
bbls., 1,500-lb. lots lb. .67 - —
kgs., 1,500-lb. lots lb. .69 - —

Bonedry shellac prices for less than 1,500-lb lots, 1c per lb higher for all packages.

Lemon, No. 1, bgs., 10-bg. lots lb. .52 Nom.
No. 2 bgs., 10-bag lots lb. .50 Nom.
Superfine, bgs., 10-bag lots lb. .48 Nom.
TN, bgs., 10-bg. lots lb. .47 Nom.

Shellac in 1 to 9 bg. lots, 1c. more

Shingle stain oil (see Oil, shingle stain).

Silica, amorph. dry grd., 325 mesh bgs., c.l., works ton 25.00 - —
t.c.l., works ton 30.00 -40.00
hard-quartz, 99½, 325 mesh, bgs., c.l., works ton 20.00 —
t.c.l., works ton 25.00 -30.00
140 mesh, bgs., c.l., works ton 15.00 - —
t.c.l., works ton 20.00 - —

Silicon tetrachloride, tech., dms., c.l., works lb. .16 - —
t.c.l., works lb. .20 - .28½

Silver bullion, ingots, cs lb. .85¼- —
Cyanide, fib. dms., 2,500-oz. lots, oz. .77⅜- —
1,000-oz. lots oz. .77⅝- —
500-oz. lots oz. .77⅞- —
100-oz. lots oz. .78⅛- —
Silver nitrate, CP, crystals, bots., 2,500-oz. lots oz. .54¾- —
1,000-oz. lots oz. .56 - —
500-oz. lots oz. .56½- —
250-oz. lots oz. .57 - —

USP granular silver nitrate 4c. per oz. higher.

Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots oz. 1.00 - —
Soapbark, whole, bls lb. .40 - —
crushed, bls., bbls lb. .50 - —
powd., bbls lb. .52 - —
Soda ash, dense, 58% paper bgs., c.l., works 100 lbs. 1.70 - —
t.c.l., stock points 100 lbs. 2.80 - 4.57
bbls. c.l., works 100 lbs 2.30 —
t.c.l., stock points 100 lbs. 3.35 - 4.12
bulk, c.l., works 100 lbs. 1.40 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.65 - —
t.c.l., stock points 100 lbs. 3.75 - 4.52
bbls., c.l., works 100 lbs. 2.20 - —
t.c.l., stock points 100 lbs. 3.25 - 5.52
bulk, c.l., works 100 lbs. 1.35 - —
Soda, caustic, flake, powd., 76%, dms., c.l., works, frt. equald. 100 lbs. 4.25 - —
t.c.l., stock points 100 lbs. 5.45 - —
liq., 50%, sellers' tanks, works, dry basis 100 lbs. 2.70 - —
rayon-type, sellers' tanks, works, dry basis 100 lbs. 2.80 - —
70%, sellers' tanks, works, dry basis 100 lbs. 2.80 - —
rayon-type, sellers' tanks, works, dry basis 100 lbs. 2.90 - —
Soda, caustic, solid, 76%, dms., c.l., works 100 lbs. 3.85 - —
t.c.l., stock points 100 lbs. 5.05 - —
Sal., bgs., c.l., works 100 lbs. 1.40 - —
t.c.l. works 100 lbs. 1.70 - —
Sodium acetate, anhyd., bgs., c.l., works lb. .12 - —
dms., t.c.l., works lb. .12¾- —
NF, 60%, gran., dms., c.l., works lb. .11 - —
dms., t.c.l., works lb. .1250- —
Alginate, NF, white powd., dms., ton lots, works lb. .87 - 1.30
refd., bbls., works lb. .83 - —
p-Aminobenzoate, dms., 1,000 lb. lots or more lb. 2.40 - —
smaller lots lb. 2.45 - 2.50
p-Aminosalicylate, dms., 1,000-lb. lots or more, frt. adjusted lb. 3.75 - —
smaller lots, same basis lb. 3.80 - 4.25
Antimoniate, bbls., c.l., dlvd. E lb. .29 - —
t.c.l., dlvd E lb. .30½- —
Arsenate, dms., c.l., works lb. .12½- —
t.c.l., works lb. .13¾- .14¾
Arsenite, dms., c.l., works lb. .13½- —
t.c.l., works lb. .14¼- .15½
soln., dms., works gal. .70 - 1.10
Ascorbate, dms., 25-50 kilo lots kilo. 16.00 - —
10-kilo lots kilo. 16.35 - —
5-kilo lots kilo. 16.75 - —
1-kilo lots kilo. 17.00 - —
bots., 500-gram lots kilo. 17.50 - —
Benzoate, tech., bbls., dms., 100-lb. lots or more lb. .39 - —
USP, t bls., dms. 100-lb. lots, or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.70 - —
t.c.l., works 100 lbs 3.70 - —
powd., bgs., c.l., works 100 lbs 2.30 - —
t.c.l., works 100 lbs. 3.30 - —
Sodium bichromate, bgs., c.l., works. lb. .11½- —
t.c.l., works lb. .12 - .13¼
Bifluoride, bbls., c.l., works, frt. equald lb. .17½- —
t.c.l., same basis lb. .1790- —
Bisulfate, bulk, c.l., works. 100 lbs. 2.00 - —
dms., c.l., works 100 lbs. 2.65 - 3.85
t.c.l., works 100 lbs. 3.05 - 3.65
Bisulfite, anhyd., bgs., c.l., works. 100 lbs. 4.50 - —
t.c.l., works 100 lbs. 4.90 - —
soln., 35°, bbls., c.l., works. 100 lbs 1.40 - —
t.c.l., works 100 lbs. 1.80 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works. lb. .34 - .35
Cacodylate, NF, dms., jars lb. 6.25 - 6.50
Carbonate, anhyd. (see Soda ash).
crystalline decahydrated (see Soda sal).
monohydrated bgs., c.l., works 100 lbs 2.90 - —
t.c.l., works 100lbs. 3.30 - —
Carboxymethyl cellulose (see CMC).
Chlorate, cryst., dms., c.l., works. lb. .08¾- —
t.c.l., works lb. .10¼- .11
Chloride tech (see Salt).
USP dms lb .05 .12
Chlorite, tech., dms., c.l., works. lb. .58 - —
20-ton lots or more, works. lb. .66 - —
smaller lots, works lb. .70 - .73
Chloroacetate, tech., dms., c.l., works lb. .27 - —
t.c.l., works lb. .28 - —
Chromate, dms., c.l., works lb. .13¼- —
t.c.l., same basis lb .13¾ .15
Citrate, anhyd., dms lb. .60 - .65
NF VIII, gran., dms lb. .26 .30½
USP, XVI gran., dms lb. .29½- .34

Sodium citrate USP powd prices 1c higher.

Cyanate, dms., 1,000-lb. lots, works. lb. .85 - 1.10
smaller lots works lb 1.00 1.25
Cyanide flake, 96-98%, dms., c.l. or 20,000-lb. lots lb. .178 - —
over 1,000-lb lots lb. .188 - —
100-lb. to 1,000-lb. lots lb. .198 - —

Granular sodium cyanide 1c higher.

Diacetate, 33-35% acidity, 250-lb. dms., works lb. .14 - —
t.c.l., works lb. .14¾- —
anhyd., dms., c.l., works lb. .17 - —
t.c.l., works lb. .17¾- —
Dichromate (see Sodium bichromate).
Ferrocyanide, bgs., 10-ton lots lb. .13½- —
smaller lots lb. .14 - —
Fluoride, white 97%, bbls., c.l., works lb. .1250- —
t.c.l. works lb .1290- —
Formate, bgs., c.l., dlvd. E 100 lbs. 7.60 - —
t.c.l., works 100 lbs 8.65 - —
Gentisate 100 lb fib dms lb 8.50 —
Gluconate, refd., dms. lb. .80 - .83
tech., dms lb. .35 - —
Glutamate, mono-, dms., c.l. lb. 1.55 - —
Glycerophosphate, NF, cryst., bbls. lb. 2.10 - 2.25
powd., bbls lb. 2.15 - 2.30
soln., 75%, cybs lb 1.45 - 1.60
Hydride, dms., works lb. 1.80 - 3.00
Hydrosulfide (see Sodium sulfhydrate).
Hydrosulfite, dms., c.l., frt. alld. lb. .23 - —
t.c.l., frt. alld. lb. .23½- —
Hydroxide, tech. see Soda caustic)
NF pellets, 100-lb dms 1 to 100-dm. lots lb. .18¼- .33
Hypophosphite, NF, dms., ton-lots or less lb. .95 - .98
Hyposulfite, NF (see Sodium thiasulfate).
pea crystals, bgs 100 lbs. 4.50 - —
gran., bgs., c.l., works 100 lbs. 4.75 - 5.00
photo grade, bgs., c.l., works. 100 lbs. 4.50 - 4.75
t.c.l., works 100 lbs. 5.00 - 5.05
tech., bgs., works 100 lbs. 4.50 - —
t.c.l., works 100 lbs. 4.90 - 6.90

Sodium hyposulfite crystals in bbls., 50c. higher.

Iodide, USP bots., dms lb. 2.80 2.92
Lactate, edible, 50%, dms., cbys., works lb. .21½- —
60% dms cbys. works lb. .28½- —
tech. 50% dms., cbys. works, lb. .16¼- —
Lauryl sulfate, dms., c.l., dlvd lb. .22 - —
t.c.l., dlvd. lb. .23 - —
tanks dlvd. lb. .20 - —
Metabisulfite (see Sodium bisulfite).
Metaborate, octahydrate, gran., bgs., c.l., works ton 78.50 - —
t.c.l., ex whse ton 124.50 -129.50

Sodium metaborate, octahydrate in bbls., $24.50 per ton higher

Tetrahydrate, c.l., bbls., works. ton 199.50 - —
Metallic, bricks, bbls., works lb. .17 - .19
tanks, works lb. .16 - —
Metanilate, bbls., frt. alld lb. .62 - —
Metasilicate, anhyd. ogs., c.l., works 100 lbs. 5.10 - —
t.c.l., works 100 lbs. 5.20 - 7.10
dms., c.l 100 lbs. 5.25 - —
t.c.l. 100 lbs. 5.60 - 6.00
Pentahydrate, bgs., c.l., works. 100 lbs. 4.10 - —
t.c.l., works 100 lbs. 4.45 - —
dms., c.l., works 100 lbs. 4.50 - —
t.c.l., works 100 lbs. 5.10 - —
Molybdate, bbls., cbys., works lb. .75 - .85
anhyd., powd., dms., works lb. .85 - .92
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate, bbls lb. .70 - —
Nitrate, crude, dom., bgs., c.l., works ton 47.00 - —
bulk, c.l., works ton 43.50 - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac., whse ton 51.25 - —
bulk, c.l., same basis ton 47.75 - —
Nitrite, USP, bbls., c.l., works, frt. equald lb. .08 - —
t.c.l., same basis lb. .09½- —
Orthosilicate, conc., dms., c.l., works 100 lbs. 6.00 - —
t.c.l., works 100 lbs. 6.35 - 6.75
Hydrated flake bbls., c.l., works 100 lbs. 5.25 - —
t.c.l., dlvd. 100 lbs. 7.00 - —
Oxalate, 88%, bgs., works 100 lbs. 10.85 - —
Para-aminobenzoate (see sodium p-Aminobenzoate).
Para-aminosalicylate (see Sodium p-Aminosalicylate).
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .25½- —
t.c.l. same basis lb. 25½ .26¼
pellets, bgs., c.l., same basis lb. .25 - —
t.c.l., same basis lb. .26 - .29
powd., bgs., c.l., same basis. lb. .24 - —
t.c.l. same basis lb. .25 - .27

Pentachlorophenate, 20,000 lbs. min. truckloads, ¼c. per lb. over carlot prices.

Perborate, USP, tech., bbls., c.l., works lb. .193 - —
t.c.l. works lb. 198 —
Peroxide, dms., c.l., dlvd. E. of Miss lb. .1890- —
t.c.l., same basis lb. .1910- .2010
Phenolsulfonate, USP IX, gran., dms. lb. .44 - .45
powd., dms lb. .47 - .48


DRYMET®

anhydrous—the most highly concentrated form of sodium metasilicate. Economical, contains no water of crystallization.

Cowles detergent silicates are uniform in composition and particle size—dust free—readily soluble—compatible with other alkalies, soaps, phosphates, synthetic detergents and other chemicals.

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DRYORTH®

anhydrous—powerful, speedy, heavy-duty sodium orthosilicate—an economical constituent of high pH cleaning compounds.

CRYSTAMET®

pentahydrate—for compounding when lower concentration of finished product is desired. Can be used on medium pH jobs.

FOR USE IN COMPOUNDING

Floor Cleaners
General Purpose Cleaners
Laundry Products
Soap Builders
Metal Cleaners
Paint Cleaners
Dairy Cleaners
Paper de-inking Compounds
Dishwashing Compounds
Household Cleaners

WRITE TODAY for our DRYMET File Folder containing complete technical information and suggested formulations.

COWLES CHEMICAL COMPANY
7016 Euclid Avenue • Cleveland 3, Ohio

Sodium phosphate, dibasic, anhyd., bgs., c.l., frt. equald 100 lbs. 7.45 - —
l.c.l., works 100 lbs. 7.85 - —
USP, dried powd., bgs., dms., works lb. .19 - .20½
duohydrate, bgs., c.l., frt. equald 100 lbs. 7.05 - —
l.c.l., frt. equald 100 lbs. 7.25 - —
monobasic, anhyd., bgs., c.l., frt. equald 100 lbs. 8.45 - —
l.c.l., frt. equald 100 lbs 8.90 - —
tribasic, cryst., bgs., c.l., frt. equald 100 lbs. 4.20 - —
l.c.l., frt. equald 100 lbs 4.60 - —
Sodium phosphates in dms. 60c higher than bgs.

Prussiate, yellow (see Sodium ferrocyanide).

Pyrophosphate acid, bgs., c.l., works, frt. equald 100 lbs. 10.75 - —
ferric, dms., 1,500-lb. lots, works. lb. .31 - —
smaller lots, works lb. .32 - —
tetrabasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. 7.90 - —
l.c.l., frt. equald 100 lbs 8.10 - —

Salicylate, USP, dms lb. .68 - —

Sesquicarbonate, bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., dlvd., zone 1 100 lbs. 3.85 4.10
zone 2 100 lbs 4.10 4.35
zone 3 100 lbs 4.40 4.65
zone 4 100 lbs 5.10 5.35

Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia. and St. Louis; (2) Ark. E of 93° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

Sesquisilicate, hydrated, bgs., c.l., works 100 lbs. 4.60 - —
l.c.l., works 100 lbs. 4.95 - —
dms., c.l., works 100 lbs. 5.00 - —
l.c.l., works 100 lbs. 5.35 - —

Silicate, liq., 40° 1:2:3, turbid, dms., c.l., works 100 lbs. 1.35 - —
l.c.l., works 100 lbs. 1.70 - 2.30
tanks, works 100 lbs. 1.00 - —
47°, turbid, 1:2.9, dms., c.l., works 100 lbs. 1.95 - —
l.c.l., dms., works. 100 lbs 2.55 2.80
tanks, works 100 lbs. 1.60 - —
52°, turbid, 1-2-3, dms., c.l., works 100 lbs. 2.30 - —
l.c.l., works 100 lbs. 2.65 - 3.05
tanks, works 100 lbs. 1.95 - —
solid, 1.5% ogs works ton 57.50 - —

Silicofluoride, bgs., c.l., works lb. .07 - —
l.c.l., works lb. .07 - .08
Sodium silicofluoride in dms., 4/10c higher

Stannate dms. works, frt alld. E lb. .544 - .598

Sulfa drugs (see Sulfa name).

Sulfanilate, bbls., works lb. .22 - —

Sulfate, NF, VII, dried, powd., dms lb. .22½- —
tech., anhyd., bgs., c.l., dlvd., E 100 lbs. 2.50 - —
rayon grade, bgs., c.l., works. ton 29.00 - —
l.c.l., works ton 35.00 - —
USP, cryst, fib dms lb. .17½ .18
gran, fib, dms lb. .17½ .18

Sulfide, flake, dms., c.l., works, E., frt. equald lb. .05¼- —
l.c.l., same basis lb. .05¾- —
fused, bbls., c.l., works, E., frt. equald lb. .04¾- —
l.c.l., same basis lb. .05¼- —

Sulfite, anhyd., bgs., c.l., works. 100 lbs. 3.00 - —
l.c.l., same basis 100 lbs. 3.50 - —
powd., bbls., c.l., works 100 lbs. 7.25 - —
l.c.l., works 100 lbs. 7.50 - -

Sulfhydrate, flake, 70-72%, dms., c.l., works lb. .06½- —
l.c.l., works lb. .07 - —
liq., 40-44%, tanks, works, 100% basis ton. 110.00 - —

Sulfocyanide, CP, (see Sodium thiocyanate).

Tetrasulfide, liq., 40%, dms., c.l., works lb. .03½- —
l.c.l., works lb. .04 - —

Tetraborate (see Borax).

Thiocyanate, CP, dms lb. .55 - .65
tech., dms, works lb. .377 - —

Thiosulfate, NF, cryst., bbls lb. .12½- —
tech. (see Sodium hyposulphite).

Titanate, clns., c.l., works lb. .10½- —
5-ton lots, works lb. .10¾- —
1 ton or less, works lb. .11 - —

Trichloroacetate, 98% 100-lb. dms., c.l. frt. alld., E lb. .37½- —
l.c.l., frt. adjusted, E lb. .39½- —
50-lb. dms., c.l., frt. alld. E. lb. .38 - —
l.c.l., frt. adjusted, E lb. .40 - —
10-lb. cns., c.l., frt. alld. E. lb. .44 - —
l.c.l., frt. adjusted, E lb. .46 - —
Prices on Sodium trichloroacetate W. of the Rockies are 1¾c. per pound higher.

Tripolyphosphate, bgs., c.l., works, frt. equald 100 lbs. 8.05 - 8.25
l.c.l., same basis 100 lbs. 8.30 - 8.45

Trisilicate, powd., 1:32.2, bgs., c.l., works 100 lbs. 8.65 - —
l.c.l., works 100 lbs. 9.40 - 12.80
dms., c.l., works 100 lbs. 9.05 - —
l.c.l., works 100 lbs. 9.80 - 10.25

Tungstate, tech., kgs., dlvd. E lb. 1.80 - —

Sodium-ammonium phosphate, bbls., works frt. equald lb .23 —

Sodium-carboxymethyl cellulose (see CMC).

Sodium-cinchophen (see Cinchophen sodium).

Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd lb. .21 - —
l.c.l., same basis lb. .21½- —

Sodium-zirconyl sulfate, fiber dms., 1,000-lb lots or more works lb. .28 - —
smaller lots, same basis lb. .30 - —

Solvent, naphtha, coaltar, high flash, tanks, works gal. .31 - .35
petroleum (see Petroleum solvent, partial aromatic).

Sorbitan monostearate, fib. dms., 20,000-lb. lots, works lb. .32 - —
10,000 to 20,000-lb. lots, works, lb. .34 - —
smaller lots works lb. .37 .39

Tristearate, fib. dms., 20,000-lb. lots, works lb. .33 - —
10,000 to 20,000-lb. lots, works. lb. .35 - —
smaller lots works lb .38 .40

Sorbitol, cryst., pellets, dms., c.l., works lb. .30 -
1 to 5-ton lots, works lb. .32 .35
powd., dms., 1 to 5-ton lots, works, lb. .38 - .39

soln., coml., aqueous, dms., c.l., works lb. .24½- —
ton lots works lb .25 - —
smaller lots, works lb. .25¼- —
tanks works lb 23¼ - —

reg., 70%, aqueous, dms., c.l., works lb. .16 - —
ton lots works lb. 16¾ - —
smaller lots, works lb. 17 - —
tanks, works lb. .19 - —

Soybean meal, 44%, bulk, Decatur ton. 62.00 - —
protein, chemically isolated, 40-000 to 60,000-lb. lots, dlvd. lb. .25 - —
20,000 to 40,000-lb. lots, same basis lb. .25¼- —
100 to 20,000-lb. lots, same basis lb. .25½- —
mechanically refd., bgs., 40,000-lb. lots, same basis lb. .0605- —
20,000-lb. lots, same basis lb. 0620- —
smaller lots, same basis. lb. .0635- —

Sparteine sulfate, cns oz. .85 - .95

Spearmint leaves, dom., bls lb. .75 - —
imported, bls lb. 1.25 - —

Spruce extract liq. reg., tanks, works lb. .01¾- —
powd., super, bgs., c.l., works. lb. .05¼- —
l.c.l. works lb. .05½- —

Squill, white, bls lb. .17 - .19
powd., bbls. bxs lb. .18 .21

St John's bread, edible, bls lb. .13 .15

Stannic chloride, anhyd., dms., works lb. .757 - .767
Oxide, dms., dlvd. E lb. .93½- .94½
Stannous chloride, dms., works lb. .811 - 1.080
Hydrous (crystals), dms., works. lb. .84½- .88½
Sulfate, dms., works lb. .929 - .949

Starch, corn, pearl, paper bgs., c.l., 100 lbs. 7.14 - —
l.c.l. 100 lbs. 7.29 - —
powd., paper bgs., c.l 100 lbs 7.26 - —
l.c.l. 100 lbs. 7.41 - —
Prices for corn starch in cotton bags 25c per 100 lbs. higher.

Starch, potato, dom., Idaho, bgs., c.l., works lb. .06¾- —
Maine, bgs., c.l., works lb. .06¾- —
l.c.l., spot lb. .08¾- .09¼
Rice, bgs., l.c.l. lb. .15½- .16
Wheat, bgs. lb. .0755- .0780

Star root (see Helonias root).

Stargrass Root (see Aletris root).

Stavesacre seed, bgs lb. .60 - .61

Stearine oleo (see Oleostearine.)

Stomach substance, not USP, 100-lb. fib. dms lb. 2.90 - —

Stramonium leaves, bgs lb. .18 - .20

Streptomycin hydrochloride, bulk, gram. .15 - —
Sulfate, bulk gram. .15 - —

Strontium bromide, NF, cns., dms. lb. .77 - .78

Carbonate, pure, dms., 5-ton lots or more, works lb. .35 - —
1-ton lots, works lb. .37 - —
tech dms., works lb. .19 - —
Chromate, bbls., works lb. .46 - —
Iodide, jars, 25-lb. lots lb. 3.42 - —
Nitrate, bbls, cs., works lb .11 - .12
Salicylate NF dms lb. 1.65 - —
Sulfate, air floated, 90% 325 mesh bgs., works ton 56.70 - 66.15

Strophanthin, K, bots oz. 25.00 - 25.50
G, (see Ouabaine, USP).

Strophanthus seed, Kombi, biologically tested, bgs lb. 3.50 - 3.75

Styrax, USP, cs lb. .78 - .80

Strychnine, NF, powd., cns., 100-oz. lots oz. 1.10 - —
Phosphate, NF, cns., 100-oz. lots oz. 1.14 - —
Sulfate, USP, powd., cns., 100-oz. lots oz. .85 - —
crystals, 25-oz. lots oz. .96 - —

Styrene monomer, dms., c.l., works. lb. .22¼- —
l.c.l., works lb. .23¼- —
tanks, works cl 21 - —

Styroyl acetate, bots lb 1.45 1.70

Sucrose, refd., white, bgs., refy., E. 100-lbs. 8.65 - —
Octa-acetate, denaturing grade, 100-200-lbs., bgs., l.c.l., works. lb. .76 - —

Sulfabenzamide, dms lb. 4.00 - 4.50
Sodium dms lb 4.10 4.60

Sulfacetamide, fib. dms lb. 4.00 4.20
Sodium fib dms lb 5.00 5.20

Sulfadiazine, USP, microcrystals, dms lb. 10.60 - 11.10
powder, dms. lb 10.25 10.75

Sulfadiazine-sodium, USP, dms lb. 11.25 - 11.75
microcrystals, dms lb. 10.60 - 11.10

Sulfaguanidine, USP, dms lb. 2.50 —

Sulfamerazine, USP, microcrystals. lb. 10.65 - 11.15

Sulfamerazine-sodium, USP, dms., lb. 11.25 - 11.75

Sulfamethazine, microcrystals, dms., lb. 8.90 9.40
powder, dms lb 8.50 9.00

Sulfanilamide, USP, 30-80 mesh., dms lb. 1.40 1.60
microcrystals, dms lb. 1.70 1.90
powder dms lb 1.30 1.50

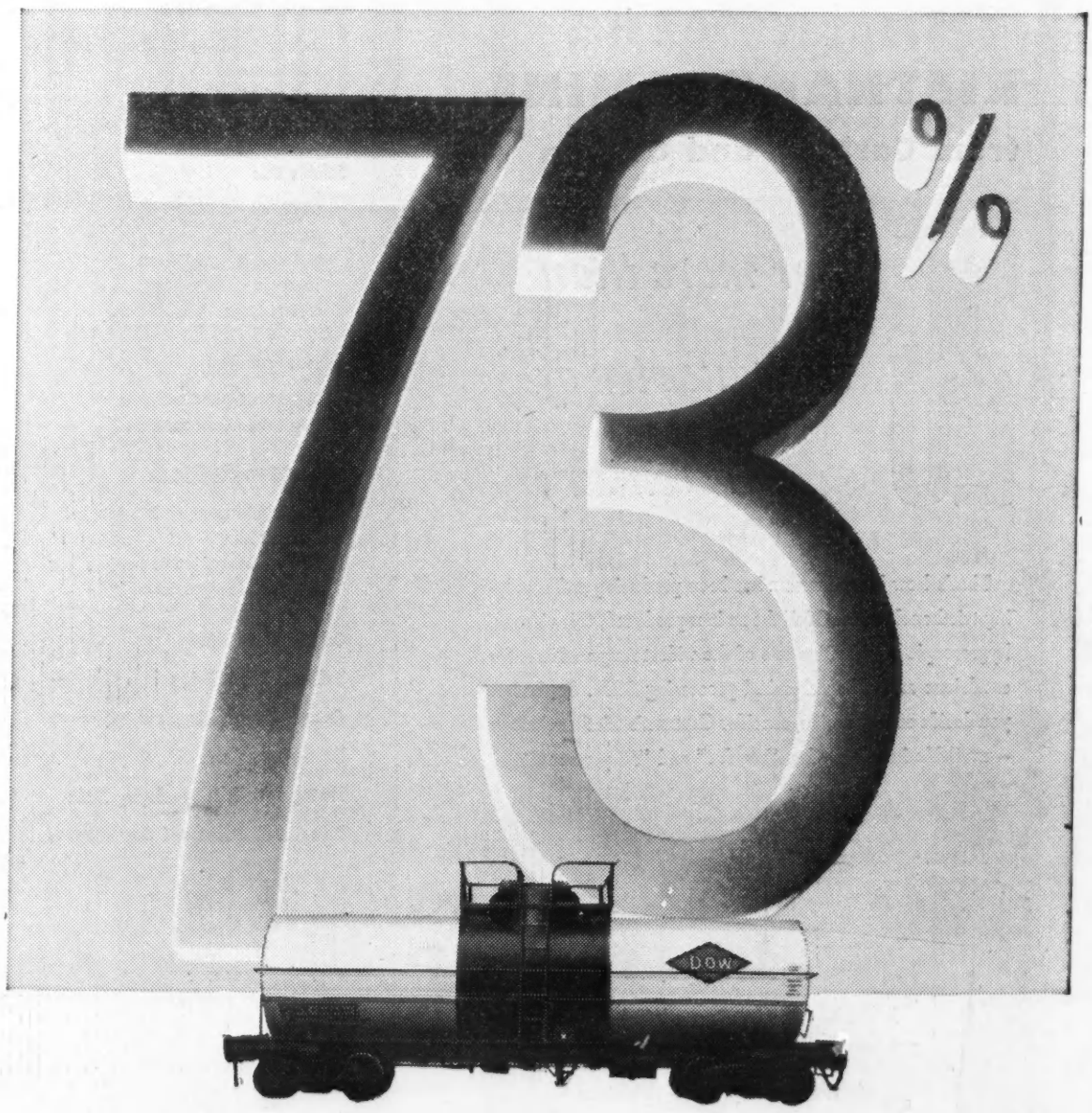
Quinoxaline, veterinary, dms lb. 6.50 - 6.75

Sulfapyridine, NF, powd., bots., tins. lb. 7.00 7.50

Sulfapyridine-sodium, monohydrate, dms lb. 7.50 8.00

Sulfathiazole, USP, microcrystals, dms lb. 3.15 - 3.30
powder dms lb 2.80 2.95

Sulfathiazole-sodium, USP, dms lb. 3.05 3.20


DOW CAUSTIC SODA

*Availability* of 73% caustic soda solution from Dow is now importantly increased. Two new bulk terminals—at Bayonne, N. J. and North Charleston, S. C.—are speedily serviced by the new liquid chemicals tanker *S. S. Marine Dow-Chem*. These added distribution points, plus expanded 73% production facilities at Midland, Mich. and Freeport, Texas, mean *faster*, more *economical* delivery to the growing number of 73% caustic users.

Our Alkali Sales Department will gladly assist you in accurately figuring your potential *savings* with 73% caustic. THE DOW CHEMICAL COMPANY, Dept. AL 900RA, Midland, Michigan.

*you can depend on DOW CHEMICALS* DOW

## Sulfur—Tributyl Phosphate

Sulfur, coml., flour, bgs., mines, 100 lbs. 2.30 - —
bbls., mines 100 lbs 3.05 - —
lump, bgs., mines 100 lbs 2.20 - —
bbls. mines 100 lbs 2.65 - —
crude, bulk, c.l., mines, contract, long-ton 26.53 - —
export, f.o.b. vessels, Gulf ports long-ton 31.00 -33.00
domestic and Canada, f.o.b vessel Gulf port long-ton 28.00 -29.50
refd., flowers, USP, bgs., mines, 100 lbs. 4.00 - —
bbls. 100 lbs. 5.25 - —
flour, light, bgs., mines 100 lbs. 3.60 - —
bbls., mines 100 lbs. 4.50 - —
lump, bgs., mines 100 lbs. 3.30 - —
rolls, bgs., mines 100 lbs. 3.85 - —
bbls., mines 100 lbs. 4.40 - —
salt block, bgs., mines 100 lbs. 3.50 - —
virgin block, bbls., mines 100 lbs. 3.45 - —
rubbermakers, coml., reg., bgs., mines 100 lbs. 2.40 - —
bbls., mines 100 lbs. 3.55 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs 4.50 - —
bbls., mines 100 lbs 3.65 - —
refd., bgs., mines 100 lbs. 3.25 - —
bbls., mines 100 lbs 4.30 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.70 - —
bbls., mines 100 lbs. 3.85 - —
10% pine tar, bgs., mines. 100 lbs. 3.90 - —
Dichloride, dms., c.l., works, frt. equald lb. .03¾- —
l.c.l., same basis lb. .04½- —
tanks, same basis lb. .03½- —
Sulfur dioxide, liq., coml., cyls., works lb. .09 - —
multi unit cars, works lb. .0535- —
tanks, works lb. .04- —
refrigeration, cyls., c.l., dlvd lb. .24 - —
Monochloride, 55-gal., dms., c.l., frt. equald lb. .03¾- —
l.c.l., same basis lb. .04½- —
tanks, same basis lb. .03½- —
Sumac leaves, 28%, bgs., ex-dock, ton. 125.00 - —
ground, bgs., ex-dock ton. 120.00 - —
Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l., Balto., unit-ton. .88 - .91
Carteret, N. J. unit-ton. .88 - .91
triple, 46% or more, a.p.a., pulv., bulk, c.l., East Tampa, Fla. unit-ton. .98 - —

## T

2,4,5-T, dms., c.l., works, frt. equald. lb. 1.25 - —
l.c.l., same basis lb. 1.30 - 2.30
Isopropyl, ester, dms., c.l., works, frt. equald lb. 1.30 - —
l.c.l., works lb. 1.35 - —
Talc, dom., ord., Calif., grad., bgs., c.l., works ton. 32.00 -38.50
Vermont off color, grd., bgs., c.l., works ton. 14.00 - —
l.c.l., works ton. 17.50 - —
Talc, fibrous, New York, grd., bgs., c.l., works ton. 25.00 -30.00
l.c.l, works ton. 28.00 -30.00
99.5%, 325 mesh, bgs., c.l., works ton. 27.00 - —
l.c.l., works ton. 30.00 -32.00
99.95% micronized, bgs., works ton. 36.00 - —
imp., Canadian grd., bgs., c.l., mines ton. 15.25 -35.00
Tallow, edible, tanks, dlvd lb. .13½- —
inedible, extra, tanks, dlvd lb. .07⅛- —
fancy, bleachable, tanks, dlvd. lb. .07⅜- —
No. 1, tanks, dlvd lb. .06⅜- —
special tanks, dlvd lb. .06⅜- —
sulfonated, 25%, bbls., l.c.l lb. .07¾- .08
50% bbls., l.c.l lb. .09¾- .10
Tankage, animal, feeding, 9-11% ammonia, bulk unit-ton. 7.00 - —
Chicago unit-ton. 7.75 - —
Tapioca flour, Brazilian, ex whse, bgs lb. .09 - .09½
Java, AAA, bgs. ex whse., bgs. lb. .06¾ Nom.
AA, bgs., ex-whse lb. .06½ Nom.
Siamese lb. .07 - .07½
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .47 - .49
l.c.l., same basis gal. .50 - .51
tanks, same basis gal. .39 - —
25-28%, dms., c.l., same basis. gal. .54 - .56
l.c.l., same basis gal. .57 - .58
tanks, same basis gal. .46 - —
50-53%, dms., c.l., same basis. gal. .70 - .72½
l.c.l., same basis gal. .73½ - .74½
tanks, same basis gal. .62½- —
Coal (see Coaltar).
Tartar emetic (see Antimony-potassium tartrate).
Terpine glycol ether, dms., c.l., works lb. .23½- —
l.c.l., works lb. .25½- —
tanks, works lb. .22 - —
Hydrate, coml., bbls., c.l. lb. .24½- —
l.c.l. lb. .25 - .25½
Terpine hydrate, NF, cryst., fib. dms. lb. .57½- .62
powd., fib., dms lb. .65 - .69
a-Terpineol, dms., l.c.l., dlvd. E lb. .19 - —
Terpineol, coml., dms., c.l., South. lb. .13½- —
l.c.l. South lb .14 —
extra, dms lb. .41 - .60
prime, dms lb. .30 - .45
Terpinyl acetate, extra, cns., dms. lb. .60 - .75
prime, dms lb. .55 - .70
Propionate dms lb 1.75 - 2.00
Terra alba, (see Gypsum).
Testosterone, USP, 100-gm. lots, bots gram. .79 - —
Propionate, USP, 100-gm. lots, bots gram. .75 - —
Tetrachloroethane, dms., works lb. .14½- —
Tetrachloroethylene, tech. (see Perchloroethylene).
USP 55-gal lots, works lb 20½ - 21½
smaller dms, works lb .23½ - 25
Tetraethyl orthosilicate dms, c.l., dlvd E lb. .64 - —
l.c.l., dlvd. E lb. 65 - —
Pyrophosphate 40% cns., dms., frt. equald lb. .69 - —
Tetraethylenepentamine, dms., c.l., dlvd. E lb .57½- —
l.c.l. dlvd E lb. .58½- —
tanks dlvd E lb. .56 - —
Tetrapotassium phosphate (see Potassium phosphate)
Tetrasodium pyrophosphate (see Sodium pyrophosphate)
Thallium metal, dlvd lb. 12.50 -15.00
Sulfate, 99%, bots., dlvd lb 8.60 -13.00
Theobromine, NF, fib. dms lb. 3.60 - —
And sodium acetate, USP, fib dms lb. 3.90 - 3.95
Sodio-Salicylate, NF, fib. dms lb. 3.20 - 3.25
Theophylline, anyhd. or USP, 100-lb. dms lb. 3.65 - —
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms. kilo. 100.00 - —
Mononitrate, USP, fib. dms kilo. 100.00 - —
Thiocarbanilide, dms lb .50 - .52
Thiodiphenylamine (see Phenothiazine).
Thiophene, dms., c.l., works lb. No stocks
Thiourea, tech., dms., c.l., works lb. .40 - —
l.c.l., works lb. .42 - —
Thorium nitrate, purif., fib. dms., 100-lb. lots or more, works lb 3.50 - —
dl-Threonine, bots., 1-kilo lots kilo. 450.00 -500.00
Spanish, bgs. lb. .10 - —
Thyme leaves, French, bgs lb. .20 - —
Thymol, fib. dms lb. 2.75 - 3.00
Iodide, NF, dms lb. 7.30 - —
Timbo root (see Cube root).
Tin chloride (see Stannous chloride, anhydrous).
crystals (see Stannous chloride, hydrous).
Metal (Straits) lb. .93 - —
Oxide (see Stannic oxide).
Sulfate (see Stannous sulfate).
Tetrachloride anhyd. (see Stannic chloride, anhydrous).
Titanium dioxide anatase, chalk resistant, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
ceramic, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
reg., bgs., c.l., dlvd lb. .22½- —
l.c.l. dlvd. lb. .23½- —
metallurgical nat., gran., bgs., c.l., f.o.b. Jacksonville, Fla ton. 120.00 - —
Niagara Falls, N Y. ton. 137.50 - —
5-ton lots, same basis. ton. 142.50 - —
ton lots, same basis. ton. 147.50 - —
Milled titanium dioxide $7.50 per ton higher.
rutile, non-chalking, bgs., c.l., dlvd E lb. .24½- —
l.c.l., dlvd. E lb. .23½- —
Hydride, cns., works lb. 7.95 - 9.00
Pigment, calcium-rutile base, bgs., c.l., dlvd lb. .08⅜- —
l.c.l., dlvd lb. .08⅞- —
Tetrachloride, tech., dms., c.l., works lb. .40¾- —
l.c.l., works lb. .43¾- —
tankcars, works lb. .39¾- —
dl-a-Tocopherol, bots kilo. 149.65 - —
Acetate, bots kilo. 136.00 - —
o-Tolidine base, distilled, bgs lb. 1.30 - —
Tolu balsam, cns lb. 4.00 - —
Toluene (see Toluol).
p-Toluenesulfonamide, flake, dms., frt. alld lb. .64 - .66
powder, works lb. .70 - —
solid, frt. alld lb. .61 - —
m-Toluidine, dms., c.l., works, frt. alld lb. .79 - —
l.c.l., same basis lb. .80 - —
tanks, same basis lb. .78 - —
o-Toluidine, dms., c.l., works, frt. alld lb. .23 - —
l.c.l., same basis lb. .24 - —
tanks, same basis lb. .22 - —
p-Toluidine, flake, dms., frt. alld lb. .64 - —
solid, dms., frt. alld lb. .60 - .61
Toluol, coaltar, indust. or nitration, tanks, works:—
Bethlehem, Pa. gal. .34 - —
Birmingham dist. gal. .32 - —
Chicago dist gal. .35 - —
Cleveland, dist. gal. .34½- .35
Geneva Utah gal. .26 - —
Johnstown, Pa. gal. .32 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .33 - —
Minnequa, Colo gal. .32 - —
Philadelphia district gal. .34 - —
Pittsburgh dist gal. .32 - —
Sparrow's Point, Md gal. .34 - —
Terre Haute, Ind gal. .35 - —
Youngstown, Ohio gal. .32½- .33
petroleum, indust., 2° tanks, works:—
Albany, N. Y. gal. .30 - —
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .38 - —
Detroit, Mich gal. .35 - —
Houston, Tex. gal. .33 - —
Philadelphia, Pa. gal. .34 - —
Providence R. I. gal. .35 - —
Wood River Ill gal. .35 - —
2,4-Tolylenediamine, cryst., fib., dms., frt. alld lb. .94 - —
powd., same basis lb. 1.00 - —
Tonka beans, Angostura, cks lb. 1.65 - 1.80
Brazilian, Surinam, cs lb. 1.00 - 1.25
Totaquine, 100-oz. lots, cns oz. .42 - —
Toxaphene, dms., c.l., works lb. .17 - —
truckloads, works lb. .17 - —
ton to truckloads, works lb. .20 - —
smaller lots, works lb. .23 - —
Triacetin, dms., c.l., dlvd. E. of Rockies lb. .39 - —
l.c.l., same basis lb. .40 - —
tanks, same basis lb. .37 - —
Tributyl citrate, tech., dms., c.l., works lb. .40½- —
l.c.l., works lb. .41½- —
tanks, works lb. .39 - —
Phosphate, dms., c.l., works lb. .52 - —
l.c.l. same basis lb. .53 - —
tanks, same basis lb. .50 - —


# TRIETHANOLAMINE
## from Carbide and Carbon

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- other oil emulsions

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- cutting oils
- textile machinery lubricants
- rayon oils
- orchard sprays

**Solvent Emulsions**
- hydrocarbon solvent emulsions
- chlorinated solvent emulsions

**Industrial Wax Emulsions**
- dispersion of casein, shellac, dyes, and rubber latex
- shoe polishes and leather dressings
- sizing and water-proof coatings

**Oil and Wax Polishes**

**Rubless Floor Polishes**

**Cosmetic Preparations and Detergents**

**Neutralize Natural Oils, Clays and Pigments**

**Photographic Film Developing Baths**

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A Division of
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30 East 42nd Street UCC New York 17, N. Y.

P-54-1928

Tributylamine, dms., c.l., works. lb. .67 - —
l.c.l., same basis lb. .68 - —
tanks, same basis lb. .65 - —
Trichlorobenzene, dms., c.l., works. frt. alld. E lb. .14½- —
l.c.l., frt. alld E lb. .15½- —
tanks, frt. alld. E lb. .13 - —
Prices in the W st 1¾c. higher.
Trichloroethylene, dms., c.l., or truckloads, works, frt. equald. lb. .11¼- —
dlvd. E lb. .12½- —
l.c.l., dlvd. E lb. .13½- —
tanks, works, frt. equald lb. .10¼- —
dlvd. E lb. .11 - —
Trichloroethane, dms., c.l., works. lb. .15 - —
l.c.l., works lb. .13½- —
tanks, works lb. .11½- —
Tricholine citrate, 65% soln., ret. cbys., works, frt. adjusted lb. 1.40 - 1.43
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .35 - —
l.c.l dlvd. lb. .36 - —
tanks, dlvd. lb. .33 - —
petroleum, dms., c.l., dlvd lb. .35 - —
l.c.l. dlvd. lb. .36 - —
tanks, dlvd. lb. .33 - —
Triethanolamine, dms., c.l., dlvd E lb. .21¾- .23¼
l.c.l., same basis lb. .22¾- .24¼
tanks, same basis lb. .20 - .21½
Triethylamine, dms., c.l., works, dlvd. E lb. .47 - —
l.c.l., same basis lb. .48 - —
tanks, same basis lb. .45 - —
Triethyl citrate, tech., refd., dms., c.l., works lb. .48 - —
l.c.l., works lb. .53 - —
tanks, works lb. .45¾- —
Phosphate, dms., c.l., works lb. .38 - —
l.c.l., same basis lb. .39 - —
tanks, same basis lb. .37 - —
Triethylene glycol, dms., c.l., dlvd. E. lb. .18¼- .19¾
l.c.l., same basis lb. .19¼- .20¾
tanks, same basis lb. .16½- .18
Triethylenetetramine dms. c.l. dlvd E lb. .48½- —
l.c.l., dlvd. E lb. .49½- —
tanks, dlvd. E lb. .47 - —
Trimethylamine, 25-30% soln., dms., c.l., works, frt. equald., 100% basis lb. .42 - —
l.c.l., works, frt. equald, 100% basis lb. .42¼- —
tanks, works, frt. equald, 100% basis lb. .33 - —
Tripentaerythritol, bgs., l.c.l., works. lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .39 - —
l.c.l., frt. equald lb. .40 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripropylene glycol, dms., c.l., frt. alld. E. lb. .19¾- —
l.c.l., frt. alld. E. lb. .20¾- —
Prices 1c. per lb. higher in
Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic)
Phosphate (see Sodium phosphate tribasic).
west.
Trypsin, pharmaceutical, 1:75, dms., works lb. 2.95 - —
dl-Tryptophane, fib. ctns., works. kilo. 165.00 - —
Tuba root (see Cube root)
Tungsten metal, powd., 98.8%, dms., dlvd lb. 4.95 - —
Turpentine, gum (see Protective Coatings market, Naval Stores).
Tyrothricin, USP, bots gram. .75 - .85

## U

Urethane, USP, dms lb. 1.50 - —
Unicorn root, false (see Helonias root).
True (see Aletris root).
Urea, dom., 46% N, bgs., c.l., works. ton. 110.00 -120.00
45% N, bgs., c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex., and E ton. 154.00 - —
l.c.l., dlvd ton. 162.00 - —
Urea-ammonia liquor, A and B grades N basis, tankcars, Belle, W. Va. ton. 128.00 - —
C grade, tankcars, same basis. ton. 126.50 - —
37 grade, tankcars, same basis. ton. 155.50 - —
Uva ursi leaves, bls lb. .12 - .14

## V

Valerian root, Belgian, bgs lb. .38 - .40
dl-Valine, dms., works lb. 21.00 -27.50
Valonia beards, 40-42% tannin, bgs., ex-dock ton. 64.50 Nom.
Valonia cups, 28-30% tannin, bgs., exdock ton. 48.00 - —
extract, powd., 62% tannin, bgs., ex-dock ton. 63.00 -64.00
Vanadium pentoxide, tech., dms., works lb. 1.28 - 1.33
Vanilla beans, Bourbon, tins lb. 10.50 -11.00
Mexican, cuts, tins lb. 10.25 Nom.
whole, tins lb. 10.50 -11.00
Tahiti, cs. lb. 10.25 Nom.
Vanillin, ex eugenol, tins, 25-lb. lots. lb. 6.50 - 6.75
smaller lots lb. 6.90 - 7.25
ex guaiacol, tins, 25-lb. lots lb. 3.00 - —
smaller lots lb. 3.05 - 3.15
ex lignin, tins, 25-lb. lots lb. 3.00 - —
smaller lots, tins lb. 3.05 - 3.15
Vinyl acetate monomer, 55-gal. dms., c.l., dlvd. E lb. .18½- —
l.c.l., dlvd. E lb. .19½- —
tankcars, dlvd. E lb. .16½- —
tanktrucks, dlvd. E lb. .17½- —
n-Butyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Chloride monomer, cyls., frt. equald lb. .26 - —
tanks, same basis lb. .13¼ —
Ether, USP, anesthesia, bots., 50 c.c., hospitals, bot. 1.12 - —
75 c.s. bot. 1.56 - —
Ethyl ether, tech., dms., c.l., works lb. .26 - —
l.c.l., works lb. .28 - —
tanks, works lb. .25 - —
Isobutyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Methyl ether, cyls., works lb. .23 - —
tanks, works lb. .20 - —

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Trichloride (see Trichloroethane).
2-Vinylpyridine, dms., works lb. 1.40 - 1.5.
Vinyltoluene, dms., c.l., works lb. .20¼- —
l.c.l., works lb. .21¼- —
tanks, works lb. .19 - —

Viosterol, in alcohol, 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .035 —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 —
in nat., veg. oil, 400,000 to 1,000,000 D units per gram, bots. lots of 10 billion USP units, 1,000,000 units. .02 - .04¾
lots of 1 billion USP units, 1,000,000 units. .025 05¼
lots of less than 1 billion USP units, 1,000,000 units. .03 05¾
Vitamin A synthetic acetate crystalline beads 500,000 A units per gram gram. .07¼ —
liquid in oil 1,000,000 A units per gram, 1,000,000 units. .12 —
Palmitate, liq., 1,000,000-1,800,000 A units per gram 1,000,000 units. .12 - —
in oil, 1,000,000 A units per gram 1,000,000 units. .12 - —
B (see Thiamine hydrochloride).
B2 (see Riboflavin.
B complex, natural (see Rice bran concentrate and Yeast).
B6 (see Pyridoxine hydrochloride).
B12 crystalline, 1-gram or 5-gram vials gram. 245.00 - —
oral grade solids, in containers of 1 and 5 grams of B12 activity gram. 185.00 - —
C (see Acid, ascorbic).
D (see Oils, codliver and fish-liver, Calciferol and Viosterol).
D2 (see Calciferol).
E (see a-Tocopherol and Oil, wheat germ).
G (see Riboflavin).
H (see Biotin)
Vitamin K, Active (see Menadione).
K1, 25 gram bots gram. 4.50 - —
Violet methyl toner (see Blue methylviolet toner
V.M.&P. naphtha (see Petroleum naphtha).

## W

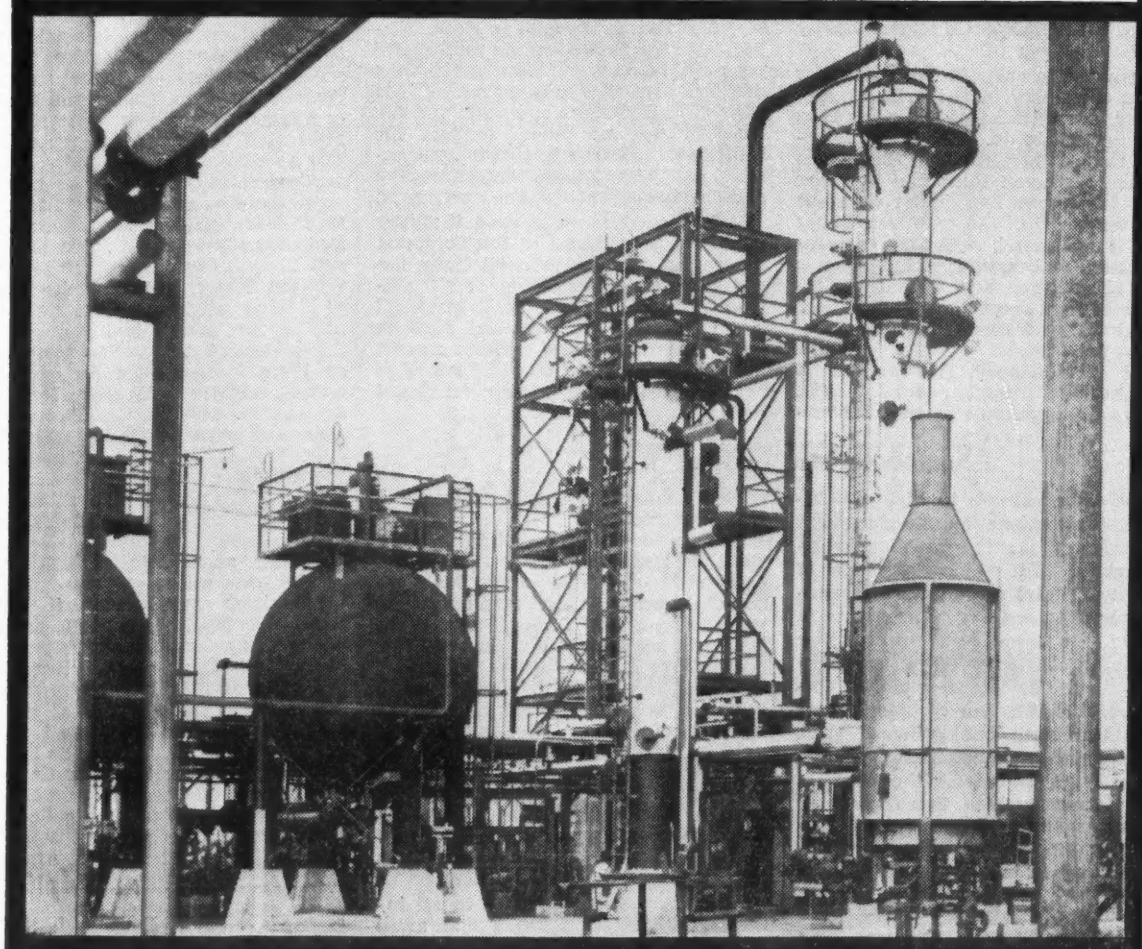
Wahoo root, bark, bls lb. 2.50 Nom.
Warfarin, 0.5%, dms., 50 lb lots, dlvd lb 1.95 —
25-49 lb lots, f.o.b., N Y. or Chi lb 2.05 - —
5-24 lb lots cns f.o.b., N Y. or Chi lb 2.15 —
Wattle bark, fair average, African, bgs., ex dock ton. 98.00 - —
merchantable, bgs., ex dock ton 94.00 - —
extract, liq., 35% tannin, bbls. lb 09¾ .10
solid, E Africa 60% tannin, bgs., ex dock, duty extra lb. .10 —
S. Africa, 60% tannin, bgs., ex-dock, duty extra lb. .10 - —
Wax, amorph, (see Wax microcrystalline)
Bayberry, bgs., spot lb .42 - .45
Bees, crude, African, bgs lb. .54 - .55
Brazilian bgs lb No stocks
Central American, bgs lb. .57 - .57½
Chilean, bgs lb. .57 - .57½
refd., bleached, white, bricks. lb. .73 - .75
slabs lb. .72 - .74
yellow, bricks lb. .60 .61
slabs lb. .59 .60
Candelilla, crude, bgs lb. .64 - .66
refd., bgs lb. .67 .69
Powdered candelilla, 20 mesh, 7c. per lb. higher, 80 mesh, 7c.; 100-200 mesh, 8c.

### Tributylamine—Wax, Microcrystalline

Wax, carnauba, chalky, bgs., ton lots lb. .69 - .70
North Country, No. 2, bgs., ton lots lb. .84 - .85
No. 3, Ceara, crude, bgs., ton lots lb. .71 - .73
refined, tech., bgs., ton lots lb. .73 - .75
pure, bgs., ton lots lb. .80 - .82
Parnahyba, crude, bgs., ton lots lb. .73 - .74
yellow, No 1 Ceara, bgs., ton lots lb. 1.02 1.04
No. 2, bgs., ton lots lb. 1.00 - 1.02
No. 1, Parnahyba, bgs., ton lots lb. 1.11 - 1.13
Powdered carnauba wax price differentials same as powdered candelilla.
Japan, bgs lb. .50 Nom.
Microcrystalline, 170°-175°F., m.p., ASTM, penetration 15-20, amber, ctns., 20,000 lbs., group 3, works lb. .13 14
smaller lots, same basis. lb 14 15
black, ctns., 20,000 lbs., same basis lb. .11½- .12½
smaller lots, same basis. lb. .12½ 13½
white, ctns., 20,000 lbs., same basis lb. .24 .25
smaller lots, same basis. lb 25 26
180°-185° F.m.p., ASTM, penetration, 7-11; amber, ctns., 20,000 lbs., same basis lb. .16 - —
smaller lots, same basis. lb. .17 —

—Continued on page 38


PETROLITE MICROCRYSTALLINE AND SYNTHETIC WAXES



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## Health Service by Pharmacy

Pharmacy can take fully justifiable pride, as a science, as a profession, as an industry, and as a trade, in the appreciative evaluation of its health service for the public expressed at the College of Pharmacy conference in the bicentennial of Columbia University (see page 7). Its contributions to the progress of the past half-century in the prevention, mitigation, and cure of disease, in the extension of the life-span of man, and in the strengthening of his economic effectiveness have been at least equal in results to those of any other group. It has given medicine the tools with which to achieve the remarkable gains in its efficiency.

With all its scientific and technical progressiveness, pharmacy has remained the friendly neighbor of the people of the communities in which its services are completed. It is in that role that it has been able to do its best work, and it is there that its potentialities for beneficial public service mainly lie.

Pharmacy, in common with all other groups that labor in the still not adequately covered field of health service, has much yet to do. One of its unfinished tasks is presented by the all too common "common cold" and by other ailments of somewhat similar virus—or whatever—origin. In the remaining tasks, it will serve best in close cooperation and collaboration with medicine, initiated on the age-old basis of the relations of local doctor and druggist and carried to the farthest reaches of national—yes, global—activity. There should be developed, for example, a close working interchange of results, needs, and suggestions between laboratory and clinical pharmacology. There should be at the other end of the health service line, joint conferences of local medical and pharmacal groups, whatever their nature. Much good was done several decades ago by way of such efforts in the movement to acquaint physicians better with the resources of official materia medica and to promote the use thereof. The field of opportunity—and of need—is far wider today, and it is spreading.

Pharmacy must get better acquainted with itself in the sense of its responsibilities to the public and, perhaps of greater importance, with respect of its essentialness in public welfare. And upon the basis of that acquaintance, it should put still more effort into its long-practiced advancing of self-development and self-regulation.

Pharmacy should be the health informant of the public, operating in that role in all its segments and especially where it has its unequalled close relation with the public—at the community prescription counter. The organizations designed for the information of the public in all matters of health and for the soliciting of public support for health services should enlist the pharmacist as their contact representative and the disseminator of their messages.

It is greatly to be desired that the published proceedings of the Columbia pharmacal conference shall have the widest possible circulation in all segments of pharmacy. It will teach all much that will be beneficial alike to those who can and do perform a most helpful service in the public needs of health and to those who are benefitted thereby.

## Somebody Must Make Work

Quite recent events in high governmental circles make it quite plain that unemployment presents the most pressing problem with which the people of the United States now and progressively will have to deal. It is imperative to declare here again and with greater emphasis that the solving of that problem must not be left to government—or to politics. It is true that, looking at the matter from one point of view, government can be considered responsible in some degree for the decrease in employment which has come over the past two years, because of the reducing of buying for defense.

By any criterion of free, private enterprise, that view is not a sound one. But, it already has a very potent influence in all areas of politics, from pressure groups to professional planners. That influence will grow, because it will be most ardently cultivated, as long as anybody's data will convince anybody else that more persons are out of work than should be—if the propagandist's politicomic practices were prevalent.

Unemployment is not so extensive as is indicated by the data of the dissatisfied; but, it is more extensive than it is said to be by the defenders of the existing political status. The fact that it is spottily severe is something that demands serious attention, but not, as many are vociferously demanding, by government. It should be and must be attended to properly and promptly by private enterprise — without recourse to the steadily increasing cry that government must give industry more and more work to do.

Private industry must find its own work. It must make it. At the recent conference of the American Management Association on manufacturing management, the needs of today were set forth as more active concern for profit and fair dealing with employees. Unfortunately, it is quite difficult to correlate profit and employment. The two are not incompatible; they are not antagonistic. But, their coexistence, in these times of successive, not always progressive, changes, requires more than a little deviation from long-existing policies and practices of management. And that applies especially in the realms of the profit motive.

There is work to be done in all industrial areas—and more so in all areas of commerce. That work, in either division of private enterprise, cannot be done without an adequate, quite extensive rearranging of various factors in all categories, from products to tasks—and the costs thereof. Adaptability is essential everywhere, because tomorrow is going to be very, very different from yesterday. The nature of that difference cannot be determined now; it will depend on a number of things. At the present time the potentially most influential of those things is the demand by the labor pressure group that government take up the employment slack. Thanks to "Hatteras Hazel" and the torrential rains which have come to restore the meteorological balance of former drought areas, government has some jobs to hand out—not as bargains in any sense of the term, and with little, if any, reason to believe that they will be any more attractive to many on the unemployment rolls than are the numerous odd jobs available in every community as a matter of course.

So, private enterprise will do well to put head, heart, and hands to its big job of making work, lest it find itself seriously handcapped in the making of anything—including profit.

## Oil and the Atom

There is nothing out of the ordinary in the belief of a leader of the petroleum industry (see OPD last week, page 5) that his group need not fear economic extermination by way of atomic energy. It really has more to fear from the revival of interest in harnessing the energy of tidal flows in this country, the development of wind-driven electrical generators in Britain, the progress with the solar battery here, and the big new push all over North America for a bigger and more effective development of the production of gas from coal. The atom threat may be a bit more interesting, but it will not soon be any more jeopardizing than is now that of the production of electricity by mixing salt water with fresh. There is a bigger idea floating around in rare scientific atmospheres, which has to do with the production of a variously applicable potent fuel source of energy by combining the salt of the sea with the nitrogen of the air to make a complex-based nitrate. The soft coal folks are said to see a promising possibility of making a super-duper fuel by mixing that nitrate with their pulverized bituminous material.

People are still building dams and hooking them up to electrical generators, even though extensive populous areas of progressive Atlantic states had their lights blown out by the big wind of a few days ago. When the electricity folks find a commercially practicable way to assure the continuity of their service, petroleum will lose a goodly portion of its essentiality as a fuel, even as it has been superseded as an illuminant. But, the electric wagon is not likely to come back and displace the gas buggy, although the bottling of coal gas might nose out some gasoline in that connection.

Petroleum is going to be used as long as there is any, as a fuel source of energy, directly or by way of electrical generation. Its other utilizations may come and go, depending on competitive costs, but it will hold on to some of them despite astounding developments of all sorts of new or revived lubricants, paint thinners, cleaning fluids, or organic chemical synthesis.

Insofar as atomic energy is concerned, in spite of the exuberant prophesizing now on tap, it is quite likely that the long-foretold, sometime expectable exhaustion of the petroleum resources of the earth will have materialized before the splitting of any kind of an atom has become of any use whatsoever for as many as 1 percent of the number of those who now use petroleum in some form for some purpose. It will not be soon that the most extensive application of atomic energy is for something other than the promotion of the sale of uranium stocks.

## *For the Bookshelf*

THE PHYSICIAN AND HIS PRACTICE. Edited by Joseph Garland, M.D. Cloth; 270 pages, 5½x8 inches. Boston: Little, Brown & Co., $5.

This book is a compilation of source information by eighteen different authorities on this general subject of medical practice. It is not a detailed guide for the young doctor, nor is it intended to be. Instead, it is a source of information for the young physician on matters relating to his career. Having served his interneship, residency, and military service, the book will be an invaluable aid to him as he contemplates the future and makes his plans.

The business side of practicing medicine, good public relations, hospital relations, laboratory facilities, and general, group, and specialty practices are among the subjects considered.

## *Washington Talks*

**By Ralph L. Cherry**
*Chief, OPD Washington Bureau*

The National Labor Relations Board has just issued a ruling that stretches the collective bargaining rights of workers into the area of company stock purchasing plans. The decision is of considerable importance to a number of industries, including chemicals, which have such plans and from the viewpoint of at least one business organization encroaches entirely too close upon the field of industry management.

The ruling was made in a case brought against the Richfield Oil Corporation, Los Angeles, by the Oil Workers International Union. But what makes it of immediate importance to the chemical industry is the fact that the union spearheading the drive into this new field is the same one that may be consolidating soon with the United Gas, Coke and Chemical Workers Union to become the dominating labor organization in the chemical industry. It is a new factor that must be considered in the industry's labor relations outlook.

The ruling is that a corporation which has established for its employees a stock purchase plan to which it contributes is under a duty to bargain concerning the plan if asked to by a union which represents the employees. The board, with Albert C. Beeson dissenting, held that such a plan, when based on the employment relation and providing for company contributions, comes within the meaning of both "wages" and "other conditions of employment" and thus is subject to collective bargaining.

To the argument that bargaining on the stock purchase plan might lead to union control of the company through the votes of employee stockholders, the majority said that it is sufficient to point out that the bargaining representative, under the law, is entitled to represent the workers only in their capacity as employees. On the occasion of stockholder meetings, corporate elections, etc., the union has no voice whatever as a statutory representative.

Mr. Beeson, however, feared that the decision is a "dangerous expansion" of the usual area of collective bargaining, and not in the interests of the public much less the true interests of the parties.

### Seriousness of the Drought

Records of the Geological Survey point up the seriousness of the drought now being experienced by municipalities and industries in the southern and central sections. Indications are that it is comparable to the one experienced in the early 1930's when ground-water levels were at or near record-low levels throughout the southern two-thirds of the United States.

Many communities are short of water and some utilities and industries have been affected. Although moderate floods occurred in the northeast as a result of Hurricane Edna, many record lows for September were recorded in the southern states. (Hurricane Hazel likewise afforded some relief to part of the affected area but not enough to do much good.) Streamflow reached record lows at nineteen key gauging stations and ground-water levels in twenty-four key observation wells showed record lows in September.

In the Atlantic and Gulf states, farmers were hauling water and the city of Tifton, Ga., was supplying 100,000 gallons per day for local farm use. Record lows for thirty-eight years of streamflow data were registered for the Yadkin River at Wilkesboro, N. C., and for the Tombigbee River at Columbus, Miss. In Alabama several cities and industries were in short supply. Salt water moved up the Mobile River farther than had been previously observed. In Tennesssee the storage in the principal tributary reservoirs of the TVA was two-fifths of normal and lower than ever experienced at this time of the year.

### Isoniazid Study Begun

The Veterans Administration is going to make an intensive study of the possibilities of the drug isoniazid for treatment of multiple schlerosis, a disease for which no cure presently is know.

This drug was first announced early in 1952 as an active agent against the tubercle bacillus, but the Bronx, N. Y., VA hospital made the inadvertent discovery that it seemed to have some beneficial effect upon patients suffering from multiple sclerosis.

A limited study over a period of eighteen months reported that twenty-seven out of thirty multiple sclerosis patients treated with isoniazid seemed to show improvement. It is now planned to continue the studies under more carefully controlled conditions.

# Heavy Chemicals

Market situation in heavy chemicals did not change much last week. Judging by reports from producing quarters, demand averaged fair and shipments compare favorably with September. The tone of the general market continued steady although there was an absence of price changes to lend color to the markets. Demand for light and dense soad ash was good and broad enough to prevent any serious backing-up of supplies. Liquid caustic soda also moved freely with production keeping the market well stocked. The dry forms of caustic, however, did not command any unusual attention. It is doubtful if there is a producer of chlorine who would not welcome additional business. Sales of potassium stannate and other tin based chemicals were moderate to fair with shipments experiencing temporary interruption from the effects of the truckmen's strike. Glass plants were still taking on potassium carbonate.

Copper sulfate remained in active demand for industrial use with more interest displayed by some of the major automobile plants. Brazil continued to lead in export purchases but the agricultural demand for copper sulfate was practically nil. There is a scarcity of sulfate crystals at present and producers are not taking orders for shipment prior to six weeks. Activity in calcium chloride increased substantially under purchases for winter use in ice control. Nitric acid was steady at the late advance. Byproduct hydrochloric acid kept the supply ample. Stocks of hydrofluoric acid were not excessive but adequate to meet current needs and this could be said also of sulfuric acid. It looked as though salt cake will maintain a tight supply position over the turn of the month. Some relief to the copper metal shortage is expected by the release of government stocks. Mercury prices were unchanged with the market quiet. There was no unusual activity in lead, tin or zinc.

Paper production based on percentage, six days' capacity, was 95.0 percent for the week ending Oct. 16, according to the American Paper and Pulp Association. This compared with 93.7 in the preceding week and 97.0 in the corresponding week of 1953.

**Acid Hydrochloric**—Byproduct acid has continued to keep the market in ample supply. Miscellaneous inquiry described as good but a bit lower than current production. Prices holding steady at current levels.

**Acid, Nitric**—Firm at the late advance. Demand active enough to prevent any serious backing up of stocks. Sales for nitro products holding at September level.

**Acid, Sulfuric** — Demand averaging steady and showing improvement in some directions. Production sustained sufficiently to hold the market in a fair state of balance. Sales for agricultural use (superphosphate) expected to increase shortly.

**Ammonium Bicarbonate**—Buying interest appeared to quiet down last week after remaining at a fair level during most of the month. It looked as though consumers had enough stocks to last until November.

**Calcium Chloride** — Consuming inquiry for winter use reached the market last week and sales mounted appreciably. Demand was chiefly for prompt shipment with producers in a position to meet requirements without difficulty. While weather conditions will be a determining factor regarding the sales volume for ice control, producers appeared confident of expanding business over the next two months.

**Copper Chloride**—Demand has remained fair over the past month with most shipments destined for use in the chemical industry. The strong position of the metal has kept the market price structure firm although there have been no price changes announced. The supply has remained adequate.

**Chlorine**—Market conditions have not changed much over the past month. The supply has remained ample, demand fair and prices steady. Reports have been heard of cutback production but distribution has run below output in several instances leaving quite a problem for producers. Shipments to paper mills are reported good, textiles moderate to fair. Usage in insecticides was lower this season, water and sewage treatment about normal. Miscellaneous demand including plastics, glue and dyestuffs not unusually heavy.

**Copper Sulfate**—Industrial sales are described as excellent in volume including the automobile and iron and steel industries. Brazil has continued to lead in the export buying movement which is still active. No new developments have accurred for agricultural use. The scarcity of crystals at present has forced producers to book sales for the last half of December, other grades seemed adequate to meet demand.

**Potash, Caustic** — Consumer demand was described as fair and has not varied much over the past month. Sales are mostly for prompt shipment with the chemical and affiliated industries prominent in the current buying movement.

**Potassium Carbonate** — Glass plants have continued to take on stocks throughout the past month and have been responsible for most of the markets' activity. Demand for television tubes is still at a high level.

Retail sales of television receivers in August were 484,533 units, compared with 430,101 in the same month last year, according to the Radio-Electronics-Television Manufacturers Association, Washington. Sales for the first eight months of this year were 3,658,927 units, a new high. Last year 3,546,407 sets were sold through August.

**Potassium Chlorate**—No unusual activity featured this market over the past month. Consumers purchased for current wants in preference to future requirements. The supply was kept adequate to meet demand while prices remained firm.

**Potassium Stannate**—While platers have been content to limit purchases to current wants, sales for the month have been satisfactory. The truckmen's strike temporarily interrupted shipments but most of the difficulties were ironed out last week. Prices remained steady as the narrow fluctuations in tin resulted in unchanged prices for the chemical. At the close,, suppliers named 67.8c. to 74.4c. per pound, freight allowed east. Prices are based on Straits tin at 93c. per pound.

**Salt Cake**—Demand for use in the paper, glass and other consuming industries has been broad enough to prevent stock accumulations and keep the market in a fairly tight position over the past month. It was stated that the flow of byproduct material from rayon mills is still below normal.

**Soda Ash**—Shipments of light and dense ash continued to be described as good. According to producers, the fall pickup to date has not exceeded seasonal dimensions although moderate improvement is generally expected in November and early December. Production has kept the market in a fair state of balance and there appears to be no serious backing up of supplies. The price structure has continued firm over the past month.

**Soda, Caustic**—Shipments of liquid have maintained a fair average over the past month and will compare favorably with September. The supply has been ample to meet demand without any pressure on production. Like soda ash, the outlook is considered favorable for moderate expansion over the remainder of the year. The dry forms continued rather quiet with export demand off and domestic consumer inventories temporarily sufficient to sustain working levels.

**Sodium Bicarbonate**—Sales have ranged moderate to fair over the past month. Small lot sales have featured the market and the supply position has continued adequate except in the granular grades which have run about flush with production.

**Sodium Chlorate**—Market firm and rather quiet during the past month. Stocks not excessive but adequate to meet requirements. Demand limited chiefly to actual wants and prompt shipment requested.

**Sodium Nitrite**—Sales fair but considerably below those of September where a prospective advance in prices brought out an appreciable increase in the buying movement.

**Sodium Stannate**—Small lot sales fea-

*For Late Market Developments, See Page 4*

## *Price Trends*

**Advanced**
None

**Reduced**
None

**Comparative Price Indexes**
(100=1949 average)

| Last week | Prev. week | Last month | Oct. 23, 1953 |
|---|---|---|---|
| 98.54 | 98.54 | 98.51 | 98.26 |

*(For Current Prices see page 9)*

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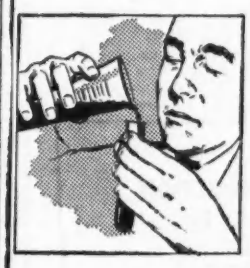

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tured the market during most of the past month. The uncertain position of the tin market made buyers cautious. Prices were unchanged last week, producers naming 54.4c. to 59.8c. per pound, freight allowed east. Prices are based on Straits tin at 93c. per pound.

**Sulfur**—The domestic sulfur industry produced 462,098 long tons of native sulfur and 30,700 tons of recovered sulfur (of a purity of 97 percent or greater) during the month of August, according to reports of producers to the Bureau of Mines, United States Department of the Interior. Producers' stocks of native sulfur increased over the previous month and at the end of August stood at 3,289,362 tons. Stocks of recovered sulfur on August 31 were placed at 105,657 long tons. Stocks of native sulfur on July 31 were 3,258,821 long tons and at 3,037,323 on August 31, 1953. Supplies of recovered sulfur on July 31 were 113,969 long tons and at 127,207 on August 31 last year.

## Nonferrous Metals

**Aluminum**—In review the Bureau of Mines states that shortages and the associated difficulties of procurement in the markets for aluminum changed to adequate supplies and strong sales efforts during the last half of 1953. Production rates increased as a result of new primary aluminum capacity being put into operation, but consumption declined because of rescheduling of defense contracts and inventory adjustments. Government controls on distribution and use were abolished for all aluminum items except those going into defense or atomic energy applications. The record domestic aluminum production obtained in 1953 was largely an outgrowth of the Government planned expansion which was initiated in 1950 under authority of the Defense Production Act. The 1,252,000 short tons of primary aluminum produced in 1953 was a 315,000 ton increase from 1952, and of this increase 300,000 tons came from plants constructed or expanded under the government program.

**Copper**—Firm and definitely short supply. It seems that the government has changed its mind regarding its stockpile holdings. It is now stated that the government will release some of its copper stocks to ease shortages resulting from recent strikes in the copper producing and refining industries. Consumers are expected to get about 15,000 tons of Government copper over the remainder of the year. That's about a fourth of the total reduction in output estimated to have been caused by the labor troubles. It was later stated that about 9,000 tons of government owned copper will not be delivered to the stockpile this month. The price of electrolytic was unchanged at 30c. per pound delivered Valley basis.

**Lead**—Buying interest did not exceed moderate limits last week and the market was described as a quiet affair. Some buying for November shipment ws noted but most of the activity was confined to October. The London market did not vary enough to have any effect on domestic prices. The common grade closed at 15c. per pound, New York and at 14.80c. St. Louis.

**Mercury**—Market situation continued rather quiet last week with a moderate exchange of small lots at $330 per flask on spot. Consumers showed the same cautious attitude only buying where necessity required. The spot supply remained definitely tight.

**Nickel**—Certain nickel-bearing alloy scrap and nickel-bearing cobalt scrap, formerly under strict export quota, has been open-ended for the fourth quarter, the Bureau of Foreign Commerce has announced. Under an open-end quota, no quantitative limitation is set, but exports are controlled to protect the national security. The open-ended commodities are:—Nickel-bearing alloy scrap containing no more than 67 percent nickel, except nickel-bearing stainless steel, Schedule B No. 654502; and nickel-bearing cobalt scrap, except type S-816, alloy containing 19-21 percent nickel, 19-21 percent chrome, and 40-44 percent cobalt, B No. 664526.

**Tin**—Last week showed no important fluctuation in the price of Straits on spot. The market was not unusually active with consumer interest spotty. The tone was rather soft with futures about ½c. under spot quotations. Sales in the late trading were reported at 93c. per pound.

**Zinc**—No unusual activity last week. Sales were spotty and of moderate dimensions and chiefly for October shipment. The tone of the market remained steady with prime western priced at 11½c. per pound East St. Louis and 12c. delivered New York.

Bureau fo Mines placed August consumption aa 73,529 tons, against 63,314 tons in July. However, while the rise in consumption in August was encouraging, the industry still is far behind the record of last year as totai consumption in the first eight months, at 558,766 tons, is approximately 127,000 tons behind the 685,613 tons consumed in the first eight months of 1953. Stocks of slab zinc at consumers' plants on August 31st totaled 95,957 tons, as compared with 98,745 tons on July 31st and 105,551 tons on August 31, 1953. There were 6,900 tons of slab zinc in transit to consumers. Of this total, 3,100 tons were en route to galvanizers, 3,000 tons to die casters, 400 tons to rolling mills and 400 tons to brass mills.

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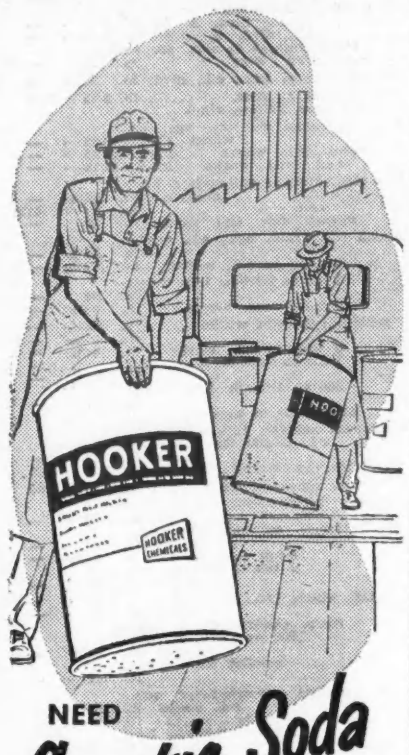


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## *Current Prices*

*—Continued from page 31*

| | | | |
|---|---|---|---|
| Wax, microcrystalline, 180°-185° F.m.p., ASTM, penetration 7-11, black, ctns., 20,000 lbs., same basis | lb. | .14½ | — |
| smaller lots, same basis. | lb. | .15½ | — |
| white, ctns., 20,000 lbs., same basis | lb. | .27 | — |
| smaller lots, same basis. | lb. | .28 | — |
| 190°-195°F., m.p., ASTM, penetration 2-7, amber, ctns., 20,000 lbs., same basis | lb. | .20 | — |
| smaller lots, same basis. | lb. | .20½ | — |
| black, ctns., 20,000 lbs., same basis | lb. | .18 | — |
| smaller lots, same basis. | lb. | .18½ | — |
| white, ctns., 20,000 lbs., same basis | lb. | .33½ | — |
| smaller lots, same basis. | lb. | .34½ | — |
| Montan, dom., refd., bgs. | lb. | .31 | .32 |
| imp., crude, Bohemian, bgs. | lb. | .13 | .13½ |
| German, bgs | lb. | .14 | .14½ |
| Ouricury, refd., bgs | lb. | .95 | .98 |
| Paraffin (see P). | | | |
| Spermaceti, blocks, cs | lb. | .25½ | .31 |
| cakes, cs | lb. | .26½ | .32 |
| Sugar cane, dom., refd., slabs, works | lb. | .75 | .80 |
| spot | in. | .77¼ | .82¼ |
| White lead (see Lead, white). | | | |
| White pine bark, rossed, bls. | lb. | .18 | .19 |
| White precipitate, USP, powd., dms. | lb. | 6.55 | — |
| Whiting (see Calcium carbonate). | | | |
| Wild cherry bark, thin, nat., bls. | lb. | .18 | .19 |
| rossed, bls | lb. | .19 | .23 |
| Ginger (see Snake root, Canada). | | | |
| Witch hazel bark, bls. | lb. | .16 | .17 |
| leaves, bls. | lb. | .18 | .19 |
| Woolfat, crude (see Degras). | | | |
| USP (see Lanolin). | | | |
| Wormseed, American, bgs. | lb. | .20 | .25 |
| Levant, bgs | lb. | 4.25 | 4.50 |

## X

| | | | |
|---|---|---|---|
| Xylene (see Xylol). | | | |
| Xylenol, cryst., 58°-60°C., m.p., dms., l.c.l., works | lb. | .40 | — |
| 56°-58°C., dms., l.c.l., works, frt. equald | lb. | .30 | — |
| 45°-47°C., dms., c.l., same basis. | lb. | .212 | — |
| l.c.l., same basis | lb. | .215 | — |
| tanks, same basis | lb. | .199 | — |
| fractions, over 7°C., b.r., except meta, dms., c.l., same basis | gal. | .90 | — |
| l.c.l., same basis | gal. | .99 | — |
| tanks, same basis | gal. | .85 | — |
| meta fraction, over 7°C. b.r., ums., c.l., same basis | gal. | 1.01 | — |
| l.c.l., same basis | gal. | 1.04 | — |
| tanks, same basis | gal. | .90 | — |
| Xylidines, mixed, dms., c.l., truckload, works | lb. | .39 | — |
| l.c.l., same basis | lb. | .40 | — |
| tanks, same basis | lb. | .38 | — |
| Xylol, coaltar indust., tanks, works, Bethlehem, Pa | gal. | .34 | — |
| Birmingham district | gal. | 32 | — |
| Chicago district | gal. | .35 | — |
| Cleveland district | gal. | .35 | — |
| Geneva, Utah | gal. | .27 | — |
| Johnstown, Pa. | gal. | .33 | — |
| Lackawanna, N. Y. | gal. | .35 | — |
| Lone Star, Tex. | gal. | .33 | — |
| Lorain, Ohio | gal. | .33 | — |
| Minnequa, Colo. | gal. | .34 | — |
| Philadelphia district | gal. | .34 | — |
| Pittsburgh district | gal. | .32 | — |
| Sparrows Point, Md. | gal. | .34 | — |
| Terre Haute, Ind. | gal. | .35 | — |
| Youngstown, O | gal. | 32½ | — |
| petroleum, indust., tanks, works:— Bayonne, N. J. | gal. | .34 | — |
| Baytown, Tex. | gal. | .33 | — |
| Chicago, Ill. | gal. | .35 | — |
| Houston, Tex. | gal. | .33 | — |
| Philadelphia, Pa. | gal. | .34 | — |
| Providence, R. I. | gal. | .35 | — |
| Wood River, Ill. | gal. | .35 | — |

## Y

| | | | |
|---|---|---|---|
| Yara yara, ens | lb. | 2.15 | 2.65 |
| Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms | lb. | .47 | — |
| 90 Int'l B units per gram, 100-lb dms | lb. | .53 | — |
| 200 Int'l B units per gram, 100-lb. dms | lb. | .56 | — |
| 300 Int'l B units per gram, 100-lb dms | lb. | .60 | — |
| Yellow, barium chromate, CP, bbls., dlvd. N. l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island St. Louis St. Paul | lb. | .35 | — |
| Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below | | | |
| Benzidine, AAA, bbls., dlvd. | lb. | 1.91 | — |
| AAOT bbls. | lb. | 2.15 | — |
| Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies. | lb. | 2.65 | — |
| lithopone, all shades, bbls., frt. alld., E. of Rockies | lb. | 1.15 | — |
| Cadmium yellows, Los Angeles and San Francisco ex whse. 1c. per lb. higher. | | | |
| Chrome, CP, bbls., dlvd. N. Tenn., and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, | lb. | .31 | — |
| Dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c. higher); Miss., N. C., S. C., Penna., Dallas, Tex., 1¼c higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City Wichita prices are equalized with Chicago. | | | |
| Hansa, 10 G, bbls., same basis as yellow, chrome | lb. | 2.15 | — |
| G pigment, bbls | lb. | 1.91 | — |
| Iron oxide, natural, French type, bgs., c.l., works | lb. | .05¼ | — |
| Peruvian type, bgs., l.c.l | lb. | .038 | — |
| pure, bgs., c.l., works | lb. | .10½ | — |
| l.c.l., works | lb. | .10¾ | — |
| Mercury oxide, bbls., 1,000-lb. lots. | lb. | 5.58 | — |
| smaller lots | lb. | 5.60 | — |
| Ocher (see Yellow, iron oxide, natural) | | | |
| Zinc (chromate), bbls., dlvd. | lb. | .25 | — |
| basic, dlvd | lb. | .30 | — |
| Yerba santa leaves, bls. | lb. | .40 | .42 |
| Yohimbine hydrochloride, bots, tin. | oz. | 4.75 | 5.25 |

## Z

| | | | |
|---|---|---|---|
| Zein, bgs., 30,000-lb. lots, works | lb. | .38 | — |
| 1,000 to 30,000-lb lots, works | lb. | .40 | — |
| smaller lots, works | lb. | .43 | — |


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Cream of Tartar
*Ferric Sulphate
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Lindane and Formulations
Sulphenone (Miticide)
Toxaphene and Formulations
Muriatic Acid
*Nitric Acid
Perchlorethylene
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Rochelle Salt
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*Sodium Silico Fluoride
Sodium Hydrosulphide
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Sulphuric Acid
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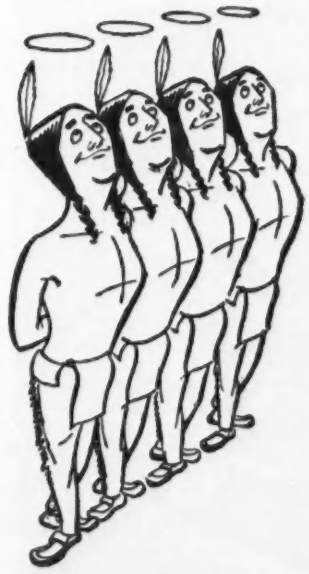

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Borate, bgs., c.l., dlvd. E lb. .192 - —
l.c.l., dlvd E lb. .202 - —
Chloride, NF, gran., dms lb. .42 - —
precipitated, powd., dms lb. .26 - —
solution 50% dms., c.l., works. 100 lbs. 5.50 - —
l.c.l., works 100 lbs. 6.10 - —
tanks, works 100 lbs. 4.85 - —..
tech., fused, dms., c.l., works. 100 lbs. 10.10 - —
l.c.l., works, dms 100 lbs. 10.60 - —
gran., fib., dms., c.l., works 100 lbs 10.60 - —
l.c.l., works 100 lbs. 11.00 - —
Chromate (see Yellow, zinc).
Cyanide, kgs., 1,000-lb. lots or more, works lb. .523 - —
smaller lots, works lb. .543 - —
Dust, pigment, bbls., c.l., works lb. .14¾- —
l.c.l., works lb. .15¾- —
Fluoride bbls., works lb. .49 - .50
Hydrosulfite, dms., c.l., frt. alld. lb. .21½- —
l.c.l., frt. alld lb. .22 - .37½
Metal, prime western slabs, E. St. Louis lb. .11½- —
Naphthenate, liq., 8% Zn., dms., frt. alld lb. .24½- —
10% Zn dms. frt alld lb. .30 - —
Oxide, pigment, American process, lead-free, bgs., c.l., dlvd lb. .12½- —
l.c.l., dlvd lb. .14½- —
leaded 35%, bgs., c.l., dlvd lb. .14¼- —
l.c.l., dlvd lb. .15¼- —
50%, bgs., c.l., dlvd lb. .14⅝- —
l.c.l., dlvd lb. .15⅝- —
French process, coml., green seal, bgs., c.l., dlvd lb. .15¼- —
l.c.l., dlvd lb. .16¼- —
red seal, bgs., c.l., dlvd lb .14¾- —
l.c.l., dlvd lb. .15¾- —
white seal, bgs., c.l., dlvd. lb. .15¾- —
USP, ctns., c.l., dlvd lb. .16¾- —
l.c.l., dlvd lb. .17¾- —
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powd., dms lb. .42 - .49
Resinate, precip., 7.2-7.6% Zn, dms., frt. alld lb. .29 - —
Silicofluoride, bbls., works lb. .12 - .13
Stearate, tech., USP, ctns., c.l., lb. .37 - —
l.c.l., lb. .38 - .42
Sulfate cryst., 22% Zn, bgs., c.l., works, frt. alld 100 lbs. 8.05 - —
l.c.l., same basis 100 lbs. 8.60 - —
Zinc sulfate, flake, 25½% Zn, bgs., works, 36% Zn., bgs., c.l., frt. alld 100 lbs. 7.90 - 8.05
l.c.l., same basis 100 lbs. 8.65 - 8.80
powd., monohydrate, bgs., c.l., dlvd. E 100 lbs. 7.90 - —
l.c.l., dlvd. E 100 lbs. 8.65 - —
Zinc sulphate in bbls., 40c higher.
USP, gran., dms lb. .26 - —
Sulfide, pure, bgs., c.l., dlvd. lb. .2530- —
Undecylenate, dms. lb. 2.25 - 2.50
Yellow (see Yellow, zinc).
Zinc-ammonium chloride, bgs., c.l., works 100 lbs. 9.65 - —
bbls., c.l., works 100 lbs. 10.25 - —
l.c.l., bbls., works 100 lbs. 10.75 - —
Zinc-formaldehyde sulfoxylate, basic, dms., c.l. lb. .25½- —
l.c.l. lb. .26 - .41⅛
normal dms. l.c.l. works lb. .52 - —
Zircon (G), gran., bgs., c.l., works. lb. .03½- —
5 tons to c.l., works lb. .03⅝- —
1 ton to 9,999-lb. lots, works. lb. .04 - —
smaller lots, works lb. .06½- —
milled, bgs., c.l., works lb. .04½- —
lb. .04⅛- —
5 tons to c.l., works lb. .04⅜- —
1 ton to 9,999-lb. lots, works. lb. .04⅝- —
500 to 1,999-lb. lots, works. lb. .07½- —
Zircon (G) in barrels, 1c. higher.
Zirconium acetate, 13% soln. $ZrO_2$, c.l., 30,000 lbs. minimum, works lb. .23 - —
Hydride, cns., works lb. 7.00 - 8.45
Nitrate, dms., ex whse lb. 4.50 - 7.00
Oxide, 92½%-99%, white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric-fused, bgs., c.l., works lb. .44 - —
5-ton lots, works. lb. .44½- —
1 ton to 9,999-lb. lots, lbs., works lb. .45 - —
CP, white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric fused, bags, 500 to 1,999-lb. lots, works lb. .45½- —
smaller lots, works. lb. .48 - —
milled, electric-fused, bgs., c.l., works lb. .59 - —
5-ton lots, works lb. .59½- —
1 ton to 9,999-lb. lots, works lb. .60 - —
500 to 1,999-lb. lots, works lb. .60½- —
smaller lots, works. lb. .63 - —
Oxychloride, cryst., ctns., 5-ton lots, works lb. .35½- —


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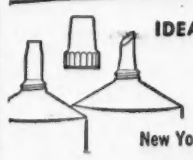

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## Nuclear Power Investigation Within Industry is Established

The Atomic Energy Commission announced last week that it has authorized a nuclear power study by a newly-formed association of nine companies known as the Rocky Mountain Nuclear Power Study Group. The study is the sixteenth currently authorized under AEC's industrial participation program.

The new group is composed of Phillips Petroleum Company, Bartlesville, Okla.; Ebasco Services, Inc., New York; Fluor Corporation, Ltd., Los Angeles, Cal.; Minnesota Mining & Manufacturing Company, St. Paul, Minn.; Arizona Public Service Company, Phoenix, Ariz.; Idaho Power Company, Boise, Ida.; Public Service Company of Colorado, Denver, Col.; Riley Stoker Company, Worcester, Mass., and Utah Power & Light Company, Salt Lake City, Utah.

The group will study at its own expense the economic and engineering possibilities of a nuclear power reactor for the western United States. It will first study the feasibility of a reactor, cooled and moderated by light water, fueled with slightly enriched uranium, and designed for the purpose of producing both power and fissionable material. The group will then investigate the economic feasibility of other reactor types. The present agreement is for one year, at the conclusion of which the group will report its findings to AEC and make recommendations on the practical applications of atomic power and the role of industry in carrying out these applications.

## Monsanto Personnel Director Picked in Organics Division

Monsanto Chemical Company, St. Louis, Mo., has named Thomas P. Tierney director of personnel relations for its organic chemicals division, and has elected W. W. Schneider a member of its finance committee. Mr. Tierney has been administrative director of Mound Laboratory which Monsanto operates for the Atomic Energy Commission at Miamisburg, Ohio. In his new position, which he will assume November 15, Mr. Tierney will coordinate all division personnel activities except labor relations.

Mr. Schneider, who is a vice-president, general counsel and treasurer of the company, joined Monsanto's legal department in 1921. He became head of the department in the same year, and was named to the executive offices of the president as general counsel this year.

## Hercules Names Hoffman Assistant Purchases Head

Hercules Powder Company, Wilmington, Del., has named William A. Hoffman, jr., assistant director of purchases. He succeeds Edwin S. Ladley, who was named director of the purchasing department earlier this month (OPD, 10/4/54). Mr. Hoffman joined Hercules in 1940 in the smokeless powder division of the company's Kenvil, N. J., plant. In 1946 he was transferred to the purchasing department in the home office in Wilmington. He became a buyer two years later, and was named a senior buyer in 1950.

## Wyandotte Div. Appoints

Horace C. Brunner has been named manager of the Chicago office of Wyandotte Chemicals Corporation's Michigan Alkali Division, Wyandotte, Mich. A Wyandotte employee since 1930, Mr. Brunner was manager of Wyandotte's Detroit, Mich., office for six years. Before being appointed assistant manager of the Chicago office, Mr. Brunner served as manager of distributor sales at the company's home office.


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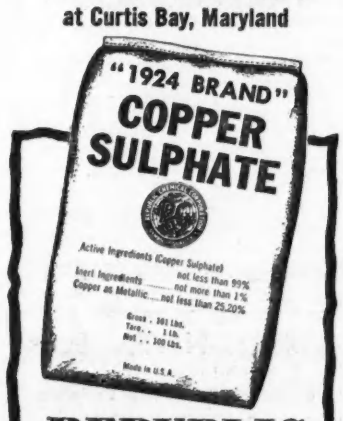
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## Diamond Alkali Company Shifts Veteran Employees

Diamond Alkali Company, Cleveland, Ohio, has announced the reassignment of eight veteran employees to new duties in the central engineering department.

George V. duPont, former department manager, has become staff engineer and John W. Hackney, former construction engineer, has been made chief construction engineer. Francis W. Rockwell, chief design engineer, has been named project engineer while Robert C. Sutter, who had been on special engineering assignments, has become chief group engineer of the department's Painesville group. J. Edward Loeffler, jr., who had been in central engineering, has become senior project engineer while Blase Nemeth, a construction engineer, has been promoted to senior estimating engineer in the Painesville group and Samuel W. McIlrath, a technical engineer at the Painesville works, has been made a staff engineer. Mrs. Josephine G. Sheffer, formerly in charge of the information center at the technical center, has been transferred from research to central engineering, where she is now a staff assistant.

## Manufacturers Products Exhibit Set For October 26-28 in Baltimore, Md.

The Purchasing Agents' Association of Baltimore has scheduled its annual manufacturers' products exhibit at the Emerson hotel, Baltimore, Md., for tomorrow, Wednesday and Thursday. Sixty-five booths have been prepared for the show. Exhibitors will display electrical, mill and ship equipment and supplies. Prizes will be awarded to the exhibitors with the most attractive and most informative booths.

## Bids Wanted

**Alcohol,** ethyl, 155,000 gals., especially denatured, 5% methanol by volume, formula 3A, inv. 20, Nov. 1, Contracting Officer, White Sands Proving Ground, Las Cruces, N. Mex.

**Chlorine,** 16,000 lbs. liquid, inv. 83, Oct. 27, Contracting Officer, Army Chemical Center, Md.

**Diethyl sulfate,** 6,500,000 lbs. refined, inv. 174-58, Oct. 26, Supply Officer, Navy Dept., 174, Naval Powder Factory, Indian Head, Md.

**Glycerine,** 11,328 bots., inv. 133-B, Nov. 5, Armed Services Med. Procurement Agency, 84 Sand St., Hdyn, N. Y.

**Lime,** 24,000 lbs. hydrated, inv. 503-290-55, Nov. 5, Interior Dept., Bureau of Reclamation, Rio Grande Project, 211 Court House, El Paso, Tex.

**Limestone,** 50,000 tons ground, inv. Maine-4, Nov. 2, Agriculture Dept., Agricultural Stabilization & Conservation, The Maples, University of Maine, Orlando, Maine.

**Paint,** 700 gals. interior enamel, 1,200 gals. synthetic interior, inv. 36-52963-R, Nov. 10, Gen. Services Adm., Business Service Center, Region 3, 7th & D Sts., S.W., Washington 25, D. C.; 3,477 gals. interior, oil, flat, ready-mixed paint, inv. 383-195, Nov. 3, 17,000 gals. interior gloss enamel, East & West Coast, inv. 383-201, Nov. 3, 13,000 gals. semi-gloss enamel, East & West Coast, inv. 383-204, Nov. 5, 45,000 gals. semi-gloss enamel, inv. 383-205, Nov. 5, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

**Trichlorethylene,** 1,705 gals., grade II, inv. 83, Oct. 27, Contracting Officer, Army Chem. Center, Md.

**Zinc oxide,** 769,780 lbs. lead free, inv. CML-18-B, Oct. 28, N.Y. Chem. Procurement District, 180 Varick St., N. Y., N. Y.

## Cyanamid Names Friedman

Martin B. Friedman has been appointed to the advertising and sales promotion staff of American Cyanamid Company's textile resin department, L. C. Duncan, general manager of Cyanamid's organic chemicals division, has announced.

## LaPine Publishes Apparatus Catalog

Arthur S. LaPine & Co., Chicago, has published the October edition of its catalog, "Lanco Apparatus News." The twelve-page booklet covers the company's centrifuges, balances, stirrers, hot plates and glassware washers, as well as other apparatus.

# Industrial Organic Chemicals

There was no price activity reported in the organic market during the past week. Sales levels were felt to be generally better than they were two months ago. Solvent demand has been good for quite a while and was still expanding. Demand from textiles has improved to a slight extent for some organics included here. Production of new automobile models will not only help sustain good sales of materials going into finishes, as solvents or synthetic resin materials, but will also give other chemicals a boost, such as those used by the rubber industry to make tires.

Solvent sales have held the acetone market in a firm position. A little weakness was still seen by a number of sources. Glacial acetic acid has received increased interest from textiles in proportion to the gains for textiles in general. Ethyl alcohol was in a firm price position. Sales were good for solvents, cosmetics, pharmaceuticals and chemical uses. Butyl acetate remained in a steady position. The same was true of alcohol. The butyl ester and ethyl acetate enjoyed a fairly steady call from lacquer outlets. Production capacity of both esters was capable of handling greater demand.

The improvement for rayon has only been slight, and has not significantly changed the outlook for carbon disulfide. Demand for CMC was fair. Carbon tetrachloride sales were steady. The market for ethyl acetoacetate was very steady and satisfactory.

Ethanolamines continued to move at a good pace. Demand for these amines fell off slightly after prices advanced. But, that was due to the normal consumer reaction of stockpile building before contract prices went up October 1. The same situation existed for glycols that rose at the same time. Demand losses had been anticipated and they were no more than expected.

2-Ethylhexanol moved in very good volume to plasticizers. Isobutyl alcohol sales were holding steady. No changes were seen in the glycerine market for refined or crude grades.

**Acetic Acid** — Producers indicated the market for glacial continued to improve with the overall pickup for textiles. Demand from rayon has not surged ahead, but it was better than it was in mid-summer. Prices were steadier than they were earlier in the year. There was not as much shading as there was previously. Production was adequate for current needs.

**Acetone** — Scattered opinions in the trade continued to vary on the general firmness of tone in the market. There were producers who said acetone was in a firm position, pointing to continued good sales volume and expanding solvent demand. At the same time there were sources relating that the price structure was not rigid. Price shading continued to be reported occasionally, although less frequently. There was ample production available to easily take care of all current consumption requirements.

Whichever view was taken, suppliers indicated that the market price of 8c. per pound in tankcars was firm. Further, all sources indicated that they have been able to move their production without difficulty. Thus far the competition anticipated by many trade sources earlier from cumene process acetone has not developed to its full extent. What has been produced from that source has fitted relatively well into the overall supply of the market without a serious disruption of the price structure, it was felt.

**Alcohol**—The price remained firm in a market which continued to show a fairly good volume. Sales were steady for consumption in many varied outlets. Adequate supplies were readily available to take care of all needs. No shortages were expected because production capacity is so large.

**Butyl Acetate** — Trade sources stated that sales in this market were at a satisfactory level. Buying interest from the lacquer industry has picked up in recent weeks. But, producers were still looking for more business as production in the automobile industry gets under way with new models. Suppliers indicated that they have been able to move all of current output as either alcohol or the ester, according to consumer requirements. Prices were stable at their present position.

**Carbon Disulfiide**—Producers indicated that sales of this material have been relatively steady. There has been a slight improvement in movement to rayon, but it was not felt to be significant and only was in proportion to the general pickup in textile activity.

The rayon market has been losing ground to other fibers in textile and industrial outlets. However, trade sources indicated that existing capacity of production already available and the cost of output was too economic to "write-off rayon prematurely." It was felt the mild pickup currently being experienced would would have to continue its expansion into January and February to be anything more than a normal seasonal upturn. Rayon activity directly affects movement of carbon disulfide because it accounts for the bulk of the sulfide's use. Price schedules have remained firm at former quotations.

**Carbon Tetrachloride**—Producers reported demand was fairly steady in this market. Use was not up to former levels due to the fact that it was being replaced by other solvents in some outlets. However present volume was considered satisfactory. Adequate supplies were readily available to take care of all anticipated needs. Prices held firm at previous quotations.

**CMC**—There have been no changes in this market. Prices were unchanged. Demand was fair, at a steady pace. Supplies were good.

**Ethanolamines**—The various isomers were still moving at a steady pace. Demand was not as heavy as it was when consumers were buying for inventory before the price advance, but it was said to be holding up well. Prices were firm at the new level. Supplies were adequate for current needs.

**Ethyl Acetate**—A better demand from lacquers has been noted by most producers. However, production capacity was still able to handle a larger call. Prices were steady at previous listings.

**Ethyl Acetoacetate** — Demand was reported to be very steady. Sales volume was sufficient to keep production moving. Prices were firm and unchanged at previously established levels. Supplies were adequate for present needs.

**2-Ethylhexyl Alcohol**—Producers reported an exceptionally good call from plasticizers. Even though competition in the plasticizer markets remained keen, the volume of sales has been holding up activity in this market very well. No price changes have taken place or were contemplated.

**Glycerine**—Refined glycerine sales continued to move along at a satisfactory pace. Producers moved various grades in all directions without letup. Output was at a steady pace. Supplies were at a normal level for current consumption. Price schedules for refined and crude grades were at previous quotations.

Imports in August were down to 798,000 pounds, compared with 1,146,000 pounds imported in July and 2,488,000 pounds in August, 1953. Total imports for the first eight months were 8,129,000 pounds whereas the comparable figure last year was 26,919,000 pounds. Exports were to the extent of 2,424,000 pounds in August, 1,419,000 pounds in July and 294,000 pounds in August, 1953. Total exports for the period from January through August were 11,598,000 pounds, while last year the total was 2,510,000 pounds.

Disappearance in August was 18,071,000 pounds, whereas it was 19,258,000 pounds in July and 19,291,000 pounds in August of last year. Total disappearance for the eight months this year was 146,108,000 pounds, compared with 147,-

### *Price Trends*

**Advanced**
None

**Reduced**
None

**Comparative Price Indexes**
(100=1949 average)

| Last week | Prev. week | Last month |
|---|---|---|
| 132.06 | 132.06 | 132.06 |

*(For Current Prices see page 9)*

This market reports on industrial aliphatic organic chemicals. Reports on industrial aromatic organics may be found in the Coal Chemicals market, while reports on fine and rare organic chemicals appear in the Drugs, Fine Chemicals, Botanicals market.

*For Late Market Developments, See Page 4*

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106,000 pounds last year. Foregoing statistics are from the American Soap and Glycerine Producers, Inc.

**Glycols**—Products such as diethylene, ethylene, triethylene and hexylene glycols continued to move well. Demand was said to be steady. There had been some heavy buying in all of these markets prior to raises in contract schedules. However, much of that activity has tapered off to leave supply and demand in an even balance. Most of the antifreeze glycol business has been completed. What there still was in that direction was last minute ordering. Supplies if ethylene glycol were good. Hexylene glycol moved well to brake fluid outlets. All of the glycol schedules were firm at their new levels.

**Isobutyl Alcohol**—The number of calls have kept activity at a relatively steady pace. Supplies were ample to take care of all current demand. Prices were firm and unchanged. It was said that there has been some export interest for this alcohol in addition to domestic inquiries.

**Perchloroethylene**—Suppliers indicated that there was a good demand for the solvent. Dry cleaning operations have turned from the summer season to fall use and the approaching holiday periods. Distributors were getting ready for the cleaning of winter clothing which is being taken out of storage and the cleaning of summer garments before they are put away. A steady pace was anticipated in coming weeks. No price revisions have been reported and none were expected.

## Carbide Appoints Mahoney To Industrial Relations Post

Robert M. Mahoney has been appointed assistant to the manager of the industrial relations department of Union Carbide & Carbon Corporation, New York.

Mr. Mahoney joined United States Vanadium Company, a division of Union Carbide at Bishop, Calif., in 1937. He became manager of industrial relations for United States Vanadium in 1941 and was subsequently located at various operations of this company in the western United States. Later he was promoted to the position of assistant manager of industrial relations for Electro Metallurgical Company, one of the principal divisions of Union Carbide, with headquarters in New York.

## Chemical Engineers to Meet

The Chemical Engineers of Greater New York have scheduled a meeting to be held at the Chemist's Club, New York, October 27 at 7:30 p.m. Slated to speak at the meeting is George F. Polzer, general purchasing agent for chemical raw materials, of American Cyanamid Company, New York. Mr. Polzer will speak on the "Sins of Salesmen." His half-hour talk will be preceded by a social hour at 5:30 P.M. and dinner at 6:30 P.M.

NOTICE
A new catalog of some 3500 Eastman Organic Chemicals has come out. If you have not already received your copy of *List No. 39*, you can get it by writing to Distillation Products Industries, Eastman Organic Chemicals Department, Rochester 3, N. Y. (Division of Eastman Kodak Company).

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# Petroleum Derivatives

Sales of partial aromatic solvents were more active over the past week and the market turned firmer. The change was attributed to a generally more active industrial tempo. Some increase had been expected after Labor Day, as sales before then in some directions had proved disappointing. Supplies were ample for the present rate of demand, however, and were expected to remain so in the weeks just ahead. The swing to production of new model cars made its effect felt by increased demand for material used in finishes. Industrial demand for toluol remained fairly routine in nature. This market was without special feature, as supplies were easily ample for needs, and consumers appeared to have no fears that they would be caught short. Xylol moved well to a fairly active demand. Aliphatics were moving a bit sluggishly in a market that currently lacked strong interest. Prices for the aforementioned materials were without change.

Users of microcrystalline waxes maintained an active demand. Although no shortages were encountered, there was also no excess material on the market. Any further increase in consumption would produce an even tighter market. Crude scale and refined grades were unchanged in price and moved to a good demand. A seasonal upturn in sales was found continuing in the liquefied petroleum gas market. Orders were filled promptly. With the season of greatest demand lying just ahead, producers expected a big upswing in ordering very shortly, as not all sellers were believed to have covered their needs. Prices for propane and butane remained steady.

## Solvents and Diluents

**Cleaners' Naphtha**—Sales were steady over the past week, producers stated, but have shown no perceptible change from levels of the recent past. Industry sources reportedly were expecting no large pickup in demand during the weeks ahead, although most foresaw a continued active demand on a par with that of the past sixty days. Prices were steady during the week.

**Mineral Spirits**—Specially refined, or odorless, material remained in good demand from the variety of users who have entered the market in recent years. Producers have been able to take care of their customers without difficulty and have shipped out material at unchanged prices. The makers expected to keep up with demand in the months ahead without pushing their output. Regular material was also in good supply and was moving well to a moderately heavy demand.

**Partial Aromatics**—Most aromatic and partial aromatic solvents moved in good volume to an increased consumer demand. Inquiries have been quite active, leading some in the industry to expect a very good fourth quarter. September was a good month, but October has not progressed far enough for any final or near-final estimates. Automobile makers have reentered the market for material used in solvents, but no shortage of material for shipment was expected to develop. The general feeling reported among consumers was one of less hesitancy toward adding to inventories. This was seen in the industry as being in line with the increased feeling of confidence widespread in the economy. Most sources expected a firmer market for partial aromatics throughout the final quarter.

**Stoddard Solvent** — With business throughout consuming industries running ahead of the past few months, the makers reported some additional inquiry. If sales held up to those of last year, however, most in the industry would likely be satisfied, as a number of producers have curbed their former expectations of a big jump in demand each year. Prices were steady as previously quoted.

**Toluol** — Industrial demand remained fairly active but failed to strain available supplies. Users have for the past months been able to fill their needs without difficulty and this condition appeared due to remain during the weeks just ahead. Due to the ample amounts on the market, civilian consumers no longer had to clamor for supplies as in the past. No appreciable increase in demand has been noted in the past thirty days, it was reported. Prices remained steady, with the consensus in the industry favoring continued stable quotations.

**VM&P Naphtha** — Consumers encountered no difficulty in obtaining material, and found prices on a level with those previously in effect. The outlook for this material was considered quite stable, with neither a large decline nor gain in sales developing.

### *Price Trends*

**Advanced**
None

**Reduced**
None

**Comparative Price Indexes**
(100=1949 average)

| Last week | Prev. week | Last month | Oct. 23, 1953 |
|---|---|---|---|
| 104.75 | 104.75 | 104.40 | 105.37 |

*(For Current Prices see page 9)*

## Lighter Fractions

**LPG's**—The seasonal upturn in sales moved farther ahead during the past week, bringing a level of demand that most suppliers considered quite normal for this period. Orders were met promptly, as material on hand remained more than sufficient for users' needs. A very large potential need for both propane and butane was seen in the fact that many sellers have not yet filled their needs adequately and also in the fact that cold weather has not exerted its influence in the full. Prices were steady.

Underground stocks of liquefield petroleum gases on August 31 totaled 278,000,000 gallons, an increase of 23,000,000 gallons over the previous month, according to the Bureau of Mines. Underground stocks of propane rose to 176,000,000 gallons and those of butane-propane mixtures rose to 33,000,000 gallons, increases of 32,000,000 gallons and 1,000,000 gallons, respectively. Butane stocks decreased to 69,00,000, a drop of 10,000,000 gallons.

## Waxes

**Microcrystalline**—Users maintained an active demand throughout the past week, keeping material moving from producers' hands. Although no actual shortage was reported, there were very little, if any, excess supplies on the market. A very close balance described the market situation best, according to industry sources. Any further increase in consumption would find an even tighter market, however, as production has been pretty well tied down by the level of lubricating oil output.

**Paraffin**—Prices for crude scale and refined grades were firm and unchanged. Domestic and export demand continued good, so that a favorable sales picture was expected by the end of the final quarter. Supplies were in a somewhat snug position, although no users appeared to be actually hurt by lack of material.

## Miscellaneous

The Texas Railroad Commission last week granted requests of crude oil buyers by approving a fifteen-day production schedule for the state's wells during November. The new schedule puts average allowables at 2,864,749 barrels, an increase of 64,300 barrels from the rate for October. The commission set its next meeting for November 15.

### Los Angeles Petroleum Market

*Los Angeles.*—Among the specialty products in demand from California refineries, paraffin wax stood out by far as being most heavily in request and producers were also lagging in their ability to fulfill requirements for butane. A continuous drain on paraffin supplies was noted from all quarters, including export requirements, while Texas sources were called on to bolster requirements for butane. Prices remained on previously posted suppliers' schedules.

### *Crude Oil Stocks*

Stocks of domestic and foreign crude petroleum at the close of the week ended October 9, totaled 273,159,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 270,084,000 barrels for the preceding week, this represents an increase of 3,075,000 barrels comprising an increase of 1,864,000 barrels in stocks of domestic crude and an increase of 1,211,000 barrels in stocks of foreign crude.

*For Late Market Developments, See Page 4*

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| VOLATILITY | | | |
| Distillation IBP, °F... | 210 | 220 | 250 |
| 10%, °F... | 240 | 236 | 260 |
| 50%, °F... | 265 | 250 | 274 |
| 90%, °F... | 300 | 275 | 287 |
| Dry Point, °F... | — | — | 300 |
| SAFETY | | | |
| Flash Point, TCC, °F... | — | — | 60 |
| SOLVENT POWER | | | |
| Aniline Point, °F... | 129 | 131 | 102 |
| Kauri Butanol No.... | 38 | 38 | 46 |
| WEIGHT | | | |
| Gravity, °API... | 56.0 | 58.0 | 50.0 |
| Gravity, Specific, 60/60°F... | .7547 | .7467 | .7796 |
| Gravity, lbs/gal 60°F... | 6.28 | 6.216 | 6.49 |

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## Mines Bureau Fills Posts Created in Reorganization

The Bureau of Mines has named Thomas H. Miller, formerly assistant director for operations, to the newly-created post of deputy director and has filled a number of other newly-created positions.

The positions were established as part of the reorganization of the bureau based on the report of a survey team made up of persons from private industry who were appointed by Secretary McKay last year. The new appointments, Secretary McKay said, will become effective when the necessary changeover from the present bureau organization can be accomplished, and the new organization is formally established. This is expected to take place about January 1.

Paul Zinner, formerly chief of the minerals division, has been named assistant director in charge of programs. Clifford W. Seibel, formerly a regional director, has become assistant director in charge of helium operations, and James Westfield, formerly chief of the health and safety division, becomes assistant director in charge of health and safety operations. The new Washington, D. C., headquarters division chiefs are:—Charles W. Merrill, minerals division; Louis C. McCabe, solid fuels division; Roscoe A. Cattell, petroleum and natural gas division; Harry F. Weaver, coal mine inspection division; E. W. Pehrson, foreign division, and William E. Rice, administrative division.

## Oil and Gas Land Leases Offered in North Dakota

The Bureau of Land Management announces that approximately 6,908 acres of North Dakota land will be offered for oil and gas leasing at a competitive bid sale to be held October 27.

Bids should be forwarded to the director of the Bureau of Land Management, Washington, D. C., for opening at 1 p.m. The land is located within the known geologic structure of Cedar Creek Field in Bowman County, which is approximately thirty miles west of Bowman, N. D.

## *Detrex Vice-President*

T. Kenneth Haven has been appointed vice-president of Detrex Corporation Detroit, Mich. Mr. Haven formerly was executive vice-president of Reichhold Chemicals, Inc., White Plains, N. Y. In his new position, Mr. Haven's assignments will include foreign trade investigations and their ensuing operations.

## Esso Advances Appleman

R. A. Appleman has been appointed manager of the product purchases and exchanges division in the supply department of Esso Standard Oil Company, New York. Mr. Appleman, who joined the company in 1919, was formerly manager of the supply division and prior to that headed the distribution division since 1946.

### Ind. Standard Advances McCaulay

David A. McCaulay has been promoted to research associate at the Whiting, Ind., research laboratories of Standard Oil Company (Indiana), Chicago. Mr. McCaulay will serve in the hydrocarbon research division. He joined Standard in 1944 as a chemist after doing atomic energy research for the Manhattan project.


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# Textile and Leather Chemicals

Consuming demand for textile and leather chemicals continued to show improvement last week. Consumers absorbed larger quantities of most materials for prompt delivery and showed more interest in later requirements. Market tone remained steady at prevailing quotations.

Improved demand was noted for chemicals for immediate requirements. Prices for chemicals were steady, reflecting the firmness of basic materials. Steady improvement in demand reported since the first of the month.

In sizing materials, consumers stepped up demand for immediate delivery. Potato starch production in Maine was still light. Prices were unchanged and steady. Trading in tapioca flour also showed improvement for spot delivery. Interest in shipments from primary centers also was more active, chiefly from the Far East. Corn starch and dextrin continued in good request for prompt needs.

Leather production was materially higher in August than the previous month, according to Tanners Council. Cattle hide production increased to 2,004,000 hides, against 1,643,000 in July. Other grades also showed gains. Calf and whole kip skins totaled 783,000 against 634,000 in July; goat and kid skins, 2,121,000 against 2,078,000 and sheep and lamb skins, 2,365,000 against 1,613,000. Shoe production in September was estimated at 40,300,000 pairs, compared with 39,902,000 pairs in September last year. Output of all shoes during the first nine months of 1954 amounted to 374,066,000 pairs, a decline of 4.4 percent from the 391,418,000,000 pairs produced in the same period last year.

September was the first month since June, 1953, that production of rayon and acetate filament yarn and staple topped output of the same month in the previous year. Shipments in September totaled 94,000,000 pounds, 4 percent more than in August and 7.5 percent higher than for September last year.

### *Price Trends*

**Advanced**
None

**Reduced**
None

**Comparative Price Indexes**
(100=1949 average)

| Last week | Prev. week | Last month | Oct. 23, 1953 |
|---|---|---|---|
| 94.56 | 94.56 | 94.56 | 98.73 |

*(For Current Prices see page 8)*

## Chemicals

**Bichromates**—Steady demand was noted for prompt requirements. All grades were well held at former levels.

**Sodium Acetate** — Consumers limited purchases to actual needs. Quotations were without change.

**Sodium Hydrosulfite**—Business was fairly active, chiefly for prompt delivery. Market was steady at prevailing quotations.

**Sulfonated Oils** — Consuming demand was confined to actual needs. Prices were unchanged and steady.

## Sizing Materials

**Albumin Blood**—Trading was fairly active for prompt delivery. Market tone remained steady. Stocks were ample. Prices ranged from 65c. to 80c. per pound, depending upon quantity.

**Corn Dextrin**—Steady volume of business was reported for immediate delivery. All grades were maintained at former levels. Gum was quoted at $8.85 per 100 pounds, paper bags, carlots, New York delivery; canary $8.65, dark $8.70, and white $8.53, same basis. Less carlots were 15c. per 100 pounds more.

**Corn Starch**—Consumers absorbed good sized lots for prompt requirements. Market was steady and unchanged. Pearl was quoted at $7.14 per 100 pounds, paper bags, carlots, and powder, $7.25 per 100 pounds, New York basis. Smaller quantities were 15c. per 100 pounds higher. Visible corn supply increased 902,000 bushels to 16,253,000 bushels for the week ended October 15, against 10,160,000 bushels for the same time last year, according to the Chicago Board of Trade.

**Egg Albumin**—Trading was spotty, as consumers limited purchases to actual requirements. Prices were held at former levels. Flake was quoted at $1.27 to $1.29 per pound, and powder, $1.31 to $1.33 per pound, depending upon quantity. Technical was unchanged at 85c. to 87c. per pound, as to quantity.

Egg production in September amounted to 4,604,000,000, compared with 4,545,000,000 in August and 3,597,000,000, September last year. Total production January through September totaled 49,037,000,000, compared with final 1953 output of 47,081,000,000 and 10-year (1943-52) of 45,751,000,000.

**Egg Yolk**—Fair volume of business was reported for prompt delivery. Prices were steady, ranging from $1.04 to $1.07 per pound, depending upon quantity.

**Potato Starch**—Consumers showed an active inquiry in replacements. Trading was fairly active for prompt needs. Prices were maintained at 6¾c. per pound, carlots, f.o.b. Maine. The Idaho market also was firm at 6¾c., carlots, mills and ½c. less for delivery to eastern points. Demand for spot delivery also was of good volume, with quotations unchanged at 8¾c. to 9¼c. per pound, exwarehouse, according to quantity. Imported starches were unchanged. Danish was held at 7.3c. per pound, exdock, duty paid and Dutch, 7⅞c., same basis.

**Sago Flour**—Demand was light and spotty for spot delivery. Raw quoted at 6¾c. to 7c. per pound, exwarehouse and refined 8½c. to 9c. per pound, as to quantity. Shipments were named at 5¾c. per pound, carlots, exdock.

**Tapioca Flour**—Consuming inquiry was more active for spot requirements. Interest in shipments from abroad also was improved. Market was quotably unchanged and steady. Siamese flour for shipment was quoted at 6½c. per pound, carlots, exdock, with spot stocks unchanged at 7c. to 7½c. per pound, exwarehouse, according to quantity. Brazilian for prompt shipment was quiet and nominal at 8½c. per pound, exdock. Stocks on spot were in fair demand and ranged from 9c. to 9½c. per pound, exwarehouse, according to quantity.

## Tanning Materials

Uruguayan cattlehide production during the period January-June, 1954, was about 800,000 units, or about the same as in the comparable period of 1953, according to reliable trade estimates. Official statistics are not available. Stocks of salted cattlehides declined from 335,000 hides to only 80,000 while those of dry cattlehides advanced from 350,000 to 500,000.

**Chestnut Extract**—Business continued light and spotty. Quotations were without change and steady. Liquid 25 percent tannin was quoted at 4c. per pound, tankcars, f.o.b. works; 4¾c. per pound, barrels, carlots, and 5.10c. barrels, less carlots; powdered 60 percent tannin, 10.32c. per pound, bags, carlots, and 11.02c., bags, less carlots, same basis.

**Cutch**—Market tone remained steady. Shipments were maintained at 8½c. per pound, exdock, plus duty.

**Mangrove Bark**—Trading was restricted to an occasional lot for immediate shipment. Primary markets were quotably unchanged. African bark was quoted at $69 to $70 per ton exdock; Equadorian, $55 per ton and Colombian, $58 per ton, same basis.

**Myrobalans**—Buying interest continued to lag. Offers for shipment were maintained at former levels. J1's assorted were quoted at $47 per ton, exdock; ordinary, $42, and crushed J1's, $62.50 per ton, same basis. Solid extract, 53 percent tannin was nominal at 7¼c. per pound, exdock plus duty and 50 percent tannin was quoted at 7c. per pound, same basis.

**Quebracho Extract**—This market was quiet, but steady. Shipments were maintained at former levels. Solid ordinary guaranteed 63 percent tannin was held at 11 21/32c. per pound, exdock, plus duty, and clarified, 64 percent at 12 23/64c. per pound, same basis.

**Valonia**—Market was featureless. Offers for shipment were liberal at former levels. Cups were quoted at $48 per ton, exdock, and beards at $63 to $64, same basis. Extract was quoted at 8½c. per pound, exdock, plus duty.

**Wattle**—Buying interest was confined to nearby shipment. All grades were held at prevailing quotations. Fair average bark was quoted at $98 per ton, exdock, and merchantable at $94 per ton, same basis. East African extract, 60 percent tannin was offered at 9¾c. per pound, exdock, plus duty, while South African was held at 10c. per pound, same basis.

*For Late Market Developments, See Page 4*

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# Coal Chemicals

Prices were firm in a market that continued to show improvement in activity from many directions. Demand for tar acids was improving. Intermediate sales were growing with better interest from textiles for dyestuff intermediates and from such outlets as the rubber industry or pharmaceutical output.

The pickup in tar acids was also felt in the market for natural phenol. More activity from phenolic resins and adhesives has boosted sales of technical grades as well as the synthetic USP product. The cresols and cresylic acid were moving well at a sustained pace. Demand for naphthalene was steady. Prices of domestic crude were firm and unchanged. Ample hot-pressed material was being offered at the primary sources. But, little was sold due to the fact that prices for imported naphthalene remained high in relationship to the current domestic price. There was no drastic shortage of domestic naphthalene at present consumption levels.

Coaltar pitches were in short supply. Industrial pitch was short of overall needs due to well sustained call and low production of cokeoven byproducts. The roofing pitches continued to move at an exceptionally good pace to new construction and maintenance operations.

Pyridine, among the tar bases remained slow. In the aromatic markets, benzol and toluol were in ample supply with occasional surpluses being seen. Demand for xylol was well maintained, keeping it at an approximately balanced position.

A pickup in calls for acetanilide was noted. AAOT and acetoacet-o-chloroanilide were moving at a very steady pace. Technical hydroquinone moved well. The volume for phthalic anhydride was good. But, more demand could still be handled, it was said.

Steel indsutry operations was scheduled to be at 73.6 percent of capacity, or an index of 109.3, according to the American Iron and Steel industry. This was equivalent to 1,755,000 tons, compared with 1,637,000 tons one month ago, and 2,142,000 tons one year ago.

## Basic Products

**Benzol**—There has been no change in the overall market picture for this light oil. Demand was reported to be good. Producers moved most of their output of coaltar benzol without any difficulty. Supplies were adequate to take care of current consumption requirements. Where there was any surplus benzol, there did not seem to be enough to bring any inventory problems. Most sources considered the market reasonably balanced.

The fact that coking operations have been at a low level for many months of this year has been important to the supply and demand balance of aromatics. Reduced production kept benzol output near consumption levels. Steel operations have been improving to a slight extent. But, trade sources report that there has not been enough of an increase in aromatic output to change the complexion significantly. There being no direct threat to supplies, such as strike potentials, or drastic production reductions, consumers bought only what benzol they needed for immediate use. Buying was not heavy or for stockpiling. On the other hand, no one expects demand to expand rapidly beyond current output. Too much consumption was lost to benzol when the government rubber reserve program was cutback to expect a surge in buying. Movement to styrene has been good, but not quite up to former levels, it was felt.

### *Production Estimate*

Estimated output of coal chemicals recovered from cokeoven operations during the week ending October 24, was as follows:—

| | | |
|---|---|---|
| Ammonia liquid $NH_3$ | lbs. | 820,516 |
| Ammonium sulfate | lbs. | 29,655,785 |
| Benzol | gals. | 2,836,639 |
| Coaltar | gals. | 13,011,032 |
| Creosote oil | gals. | 726,742 |
| Naphthalene, crude | lbs. | 2,004,402 |
| Pyridine, refined | lbs. | 21,099 |
| Toluol | gals. | 557,951 |
| Xylol | gals. | 148,865 |

### *Price Trends*

**Advanced**

None

**Reduced**

None

**Comparative Price Indexes**

(100=1949 average)

| Last week | Prev. week | Last month | Oct. 23, 1953 |
|---|---|---|---|
| 114.56 | 114.56 | 114.57 | 114.56 |

(*For Current Prices see page 9*)

There was fairly steady call for synthetic phenol production. But, activity, here again, was not as high as it has been in the past. The outlook, many trade sources felt, was for continued good business, but no meteoric rise was anticipated.

**Cresols**—Producers said that a firmer tone has been noted for tar acids during the past week. Demand was a little stronger from cresylic resins, tricresyl phosphate and other regular consuming outlets. In addition to a good domestic demand, there has been a sizable quantity going for export. Price schedules have held firm at previous quotations.

**Cresylic Acid**—Tar acids continued to show improvement. Suppliers enjoyed relatively good call from cresylic resins, tricresyl phosphate, wire enamels, engine cleaners and floatation uses. Probably, the most improvement was in resins, a source pointed out. Generally better synthetic resin activity was anticipated if business shows further expansion in the last quarter.

Importers reported a decidedly stronger interest in ADF cresylic acid. Here too, the majority of the new calls were coming from resin outlets. Prices were firm at previous listings.

There were no changes in domestic schedules either. Supplies of most grades were sufficient to handle all incoming inquiries. Stocks of o-cresol were not felt to be as heavy as they had been earlier since the movement of ortho picked up too.

**Naphthalene**—Prices of domestic crude material were firm at 5c. per pound. No immediate revision in schedules was anticipated. Producers were moving a steady volume of naphthalene. Demand from phthalic anhydride was well sustained, but could still be stronger and not overtax production capacity. The call from naphthalene derived intermediates has resulted in a fairly good call, mostly for industrial refined naphthalene.

Domestic production has not been too high due to the slower steel operations this year. The increases in the production rate so far this fall have not done too much towards adding to supplies of byproduct chemicals. Coking operations have not necessarily advanced at the same rate as steel operations, it was said.

There was ample imported crude naphthalene being offered in the market. Prices for imported hot-pressed crudes were reported to be firm at 4½c. per pound in large lots. It was said that the rise to ocean freight rates September 1 has lent some strength to the firm market position of imported 78-degree material. Domestic crude naphthalene continued to give imported material stiff competition at current prices, however.

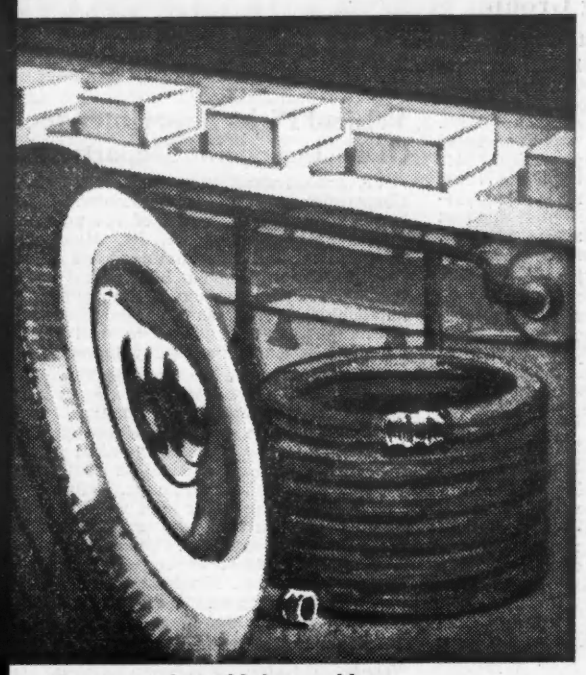
**Phenol**—Producers indicated that sales activity was improving for natural and synthetic grades. Better demand from phenolic resins and adhesives was noted as general activity showed a firmer tone. The call from varnish resins has been good. Prices schedules were firm at previous postings. Supplies appeared adequate to take care of most immediate needs.

**Pitch**—Producers indicated that there has been no change in the market for industrial pitches. Demand has been very strong for several months. There was a little letup in activity from the direction of electrodes for the steel industry during the slow operating period. However, increasing activity in steel was likely to expand the call for electrodes. Other industrial uses of pitch, such as in the aluminum industry, have supplied a well sustained demand to the market.

Roofing pitch has been going at an exceptionally fast pace. Producers indicated that the demand was very heavy. Thus, a potential source of some industrial grades was cut off from the market. Low coking operations have reduced production of pitch in recent months. No immediate improvement in supplies was anticipated.

**Pyridine**—The market for refined 2-degree material remained slow, according to producers. Supplies have been long for

*For Late Market Developments, See Page 4*



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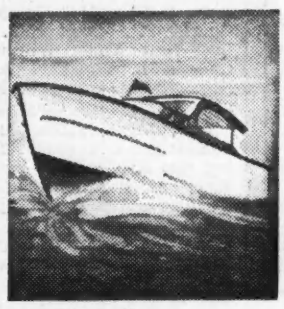
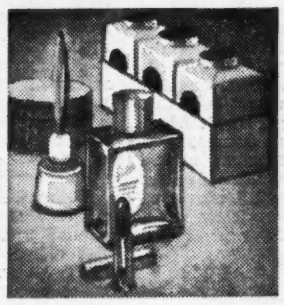


in wood bonding

in pharmaceuticals



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the tar base for many months. Discontinued uses and savings accomplished by consumers who installed recovery equipment have reduced consumption levels. Buying also fell off when consumers learned that there was no more critical shortage of the material. Prices held steady at previous levels.

**Toluol**—Low production rates have prevented a real surplus of toluol from building up. There was a little extra material available from time to time. However, the problem was not felt to be a general market condition in all areas. The surpluses have been small, and storage has presented no serious difficulties yet.

It was felt that there would be a great deal more toluol available now if it weren't for three things. First, low coking operations. Second, the sizable amount of aromatics exported earlier this year. Third, increases in consumption due to regained markets previously held by substitute materials and the amount of aromatics going into gasoline to build-up octane ratings for the current race for higher powered fuels. Coaltar sources depend largely upon coatings and other industrial uses when there is no military call. However, it was said, there is not a sufficient market in coatings to take care of all of the capacity.

**Xylol**—Producers reported that the market for this aromatic continued to go along in a balanced position. Demand was well sustained at a level comparable to production. No price changes have come about or were anticipated. Consumers seemed to be able to get as much material as they needed without difficulty.

## Intermediates

**Acetanilide**—Producers indicated that there has been a pickup in interest for this intermediate. The improvement in demand from sulfa drugs started in August and has continued to expand as the fall drug producing season got under way. Price schedules remained firm at former levels. Adequate supplies were readily available to take care of all anticipated requirements.

**Acetoacetanilide**—Demand was fairly good for this intermediate. Producers reported a steady volume of sales at posted prices. Current schedules called for 75c. per pound in carlots and 76c. per pound in l.c.l. quantities. Supplies were adequate to cope with the demand.

**Acetoacet-o-chloroanilide**—Suppliers reported that the market was very steady. Demand was sufficient to keep output moving normally. Prices were firm and unchanged.

**Acetoacet-o-toluidide** — Activity was very steady at a good pace. Producers indicated that the market was in a satisfactory position. Supplies were ample. Prices were steady and firm.

**Hydroquinone**—Demand for the technical material has been at a good level. Producers were moving their output out quickly. Production capacity was ample for the needs of consumers. Buying interest was expected to hold to its present level.

**Phthalic Anhydride**—A satisfactory demand kept a good volume of phthalic moving. However, production capacity in the industry was still able to handle a greater call. Some sources were already producing about what they can make and were selling it just as fast. The volume going to phthalate plasticizers and alkyd resins was relatively good and showing improvement. Price schedules were steady at former levels.

**Styrene**—Demand for the monomer has been maintained at a relatively good level. Trade sources indicated that a regular expansion of demand was noted from month-to-month as part of the normal growth of the market. Therefore some of the effects of seasonal fluctuations are drowned out by the growing use and the movement into another producing season after one season passes. Production of toys normally preceeds the Christmas season by several months and a very good call has come from that direction since August. September was also a good period and October sales were holding up, it was said.

Other uses of plastics such as in television sets, refrigerators and wall tiles all do their share to keep polystyrene activity up during various seasons. Prices have remained unchanged where they have been for many months. Supplies were adequate to handle current consumption needs. Increased production capacity has enabled the industry to keep abreast of the expanding market.

Styrene production in July by government and privately owned plants combined totaled 49,397,124 pounds (partly estimated), compared with 50,169,104 pounds turned out in June and 69,921,438 pounds in July of last year, according to statistics from the Tariff Commission.


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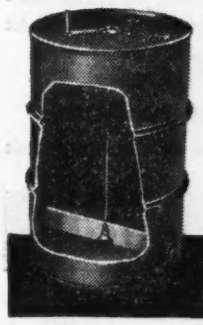
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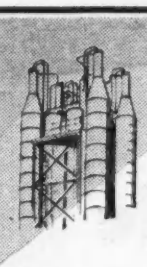
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## SAACI Nominating Group Elected; E. A. Bush Chairman

The Salesmen's Association of the American Chemical Industry has elected a seven-man nominating committee under the chairmanship of Edward A. Bush, Rhodia, Inc., New York, it was announced at SAACI's annual business meeting last week at the Roosevelt hotel, New York. The group will pick a new slate of association officers, which will be voted upon at SAACI's January installation meeting. Other nominating committee members are:—

George L. Conboy, Merck & Co., Rahway, N. J.; James McInnes, jr., Commercial Solvents Corporation, New York; George W. Poland, jr., E. M. Sergeant Pulp & Chemical Company, New York; Charles F. Alexander, L. Sonneborn Sons, Inc., New York; William W. Huisking, Charles L. Huisking & Co., Brooklyn, N. Y., and Jerome F. McGinty of Millmaster Chemical Corporation, New York.

In addition to the naming of the new nominating committee, the annual meeting was also marked by the awarding of three newly-established permanent golf trophies and the granting of six honorary life memberships in the association. SAACI's class A golf trophy for 1954 went to Stanley P. Eysmann of Cellofilm Corporation, Wood-Ridge, N. J. Class B winner was James R. Harris, jr., of Westvaco Chemical Division, New York, while the class C trophy went to David H. Jackson of Croll-Reynolds Company, New York.

Honorary life memberships went to George Bodie, formerly of R. & H. Chemical Company, which is now a part of E. I. duPont de Nemours & Co., Wilmington, Del.; Herbert Cottrell, formerly of Innis, Speiden & Co., New York; Carl O. Lind, formerly of Dow Chemical Company in New York; E. J. Maguire, formerly of the Grasselli chemicals department of duPont in New York; Preston Firman, formerly of Heyden Chemical Corporation, New York, and Ben Spencer of B. M. Spencer & Co., New York.

## Solvay Process Promotes Three in Sales Department

Three appointments in the sales department of Solvay Process Division, Allied Chemical & Dye Corporation, New York, have been announced by H. F. Merritt, vice-president. Advanced to the position of manager of their respective departments are:—R. B. Anthony, special alkalies section; F. P. Boehm, ammonium and potassium products section, and H. R. Smith, calcium chloride section.

Mr. Anthony joined Solvay in 1928 as a salesman. Assigned to the Boston branch, he worked in that territory until his appointment in 1953 as assistant manager of the department he now heads. Mr. Boehm was employed by Solvay's technical service department in 1939. He was appointed assistant manager of the ammonium and potassium products section in 1953. Mr. Smith joined Solvay's technical service department at Syracuse, N. Y., in 1936. He transferred to the sales department in 1941, performing field engineering and promotional work in connection with calcium chloride sales until his present appointment.

## J&L To Build Container Unit

Jones & Laughlin Steel Corporation, Pittsburgh, Pa., has announced plans for construction of a new container division plant and office, to be located on the same property as J&L's present plant in West Port Arthur, Tex. The equipment now used for producing steel drums will be moved into the new building, which will be about 38,000 square feet in size. The present plant, where J&L has conducted operations since 1940, will be used for warehouse space. It has over 18,000 square feet of space.

### Chlorine Handling Booklet Offered By Columbia-Southern Chemical

A twenty-six-page two-color brochure on the safe handling of chlorine has been issued by Columbia-Southern Chemical Corporation, a subsidiary of Pittsburgh Plate Glass Company, Pittsburgh, Pa. The booklet includes details on methods of shipment, instructions for handling, storage, removal from, care, and return of containers. Complete information on methods to employ in tracing leaks as well as measures to be employed in coping with them is covered. The brochure may be obtained on request to Columbia-Southern at 632 Fort Duquesne boulevard, Pittsburgh 22, Pa.

## Velsicol Picks Superintendent Of Its Insecticide Department

Velsicol Corporation, a division of Arvey Corporation, Chicago, has promoted Harry L. Mahl to superintendent of the new insecticide department of its Memphis, Tenn., plant, and has announced two other staff promotions. Marvin Lissner has been appointed superintendent of the company's heptachlor plant, also in Memphis, and J. C. Tapas has been picked to head a new section devoted to resins development.

After joining the staff of the Memphis plant in 1952, Mr. Mahl was engaged in development projects, production, and most recently in projects of design for the new Memphis organic chemical plant. Mr. Lissner joined Velsicol in 1951 as a process development engineer. Before going to the company he was with Revere Paint & Varnish Company and American-Marietta Company. Mr. Tapas formerly was in the product development section on new chemicals. His headquarters will be in Velsicol's general offices and laboratories in Chicago.

## Mich. Alkali Assigns Zorn

Michigan Alkali Division of Wyandotte Chemicals Corporation, Wyandotte, Mich., has named F. M. Zorn technical services representative. Mr. Zorn, who has been with Wyandotte for fifteen years, in his new post will assist the firm's customers in the handling and use of Michigan Alkali products.

## Nat'l Aniline Opens in L.A.

National Aniline Division, Allied Chemical & Dye Corporation, New York, has opened a branch office in Los Angeles. The office, which has a complete warehouse stock, is located in Vernon, in the heart of the central manufacturing district, at 4814 Loma Vista avenue. The telephone number is LOgan 8-2257.

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# Agricultural Chemicals

Index declined last week from 111.09 to 0.59. A sharp advance in menhaden eal was offset by a sharper decline domestic urea. The advance in enhaden meal was the result of short ocks. Several fish plants have closed own for the season and others will ose at the end of October. Weather onditions this month have not favored roduction of fish meal and the late urricane put the finishing touches on ost operations. Imports also have been alling off of late because prices broad have been higher than those in he American market. It was stated lso there will be no carry-over this eason. Urea prices were reduced in rder to place the market in a more avorable competitive position.

Dried blood was lower in price at hicago but unchanged in New York. here was not enough buying interest the midwest to sustain the market. ankage prices declined in both areas. omestic steamed bone meal was firm t the late advance with offerings carce for prompt shipment. Castor omace remained at $30 a ton bid and o sales. Ammonium sulfate continued rm with an announcement regarding ovember prices expected this week. otassium muriate deliveries have in-reased above the September level. here was no scarcity of normal or riple superphosphates at present and he same could be said of anyhdrous mmonia and ammonia nitrate.

## Fertilizer Materials

**Ammonium Sulfate** — Market position rm with prospective export shipments xpected to tighten the future supply posi-on. Stocks at present are not excessive ut appear sufficient to meet current de-and. The present price range which has ontinued unchanged since June 1 expires ctober 31. It is expected that prices will e extended.

**Bone Meal** — Market for domestic teamed fully sustained at recent advance nder a strong demand for stockfeed use. ellers quote $65 per ton in bags, carlots orks.

**Castor Pomace**—Supply conditions did ot change last week. It is expected that he sold up position of production will oon end. Meanwhile, $30 a ton is bid or carlots with no sales.

**Dried Blood**—Prices at Chicago were educed to a parity with New York. Trad-ng throughout the past week was not long extensive lines. Sellers at the close amed $8 per unit of ammonia here and n the midwest.

**Fish Meal**—Menhaden recorded an ad-ance last week, sellers naming $138.70 er ton and $134 for scrap in the Balti-more area. Most of the fishing operations ave stopped and it is stated production ill be over by October 31. Possibilities f a carry-over this year are extremely ague.

Market steady, supplies moderate, de-mand good the Department of Interior tates. Production of fish meals during he first eight months, mainly due to the menhaden fishery, was ahead of these ame months in 1953. Production will aper off during the fourth quarter.

Imports of fish meal during the first even months of 1954 amounted to 110,000 ons. This was around 23,000 tons more han in 1953 for this same period, but greatly below the imports of 1952. Total mports of fish meal for 1954 are expected o exceed somewhat those of 1953. While ontinued high production of broilers and urkeys are favorable factors in the mar-keting of fish meals, prices received this year for poultry products are generally below a year ago. The drought in many ections of the country has reduced the prospective feed concentrate supply. How-ever, because of the increase in the num-ber of animals to be fed, the feed market should strengthen and along with it the demand for fish meal.

**Phosphate Rock**—Shipments against do-mestic contracts continued fair, with sup-plies favoring the long side. Export ship-ments were still down owing to the scarcity and high level of ocean freights.

**Potassium Muriate**—Contract deliveries show a gain over September which was considered a good month. Storage stocks were described as normal and are being built up to take care of the spring de-mand.

**Sodium Nitrate** — Market quiet and steady at the lately revised port price. Volume sales expected to start in late January or early February.

### *Price Trends*

**Advanced**

Fish meal, menhaden, $3.70 per ton.
Scrap, menhaden, $4 per ton.

**Reduced**

Dried blood, Chicago, 25c. per unit of ammonia.
Tankage, 25c. per unit of ammonia.
Urea, domestic, $10 per ton.

**Comparative Price Indexes**

(100=1949 average)

| Last week | Prev. week | Last month | Oct. 23, 1953 |
|---|---|---|---|
| 110.59 | 111.09 | 110.59 | 111.50 |

(*For Current Prices see page 9*)

**Superphosphate**—Shipments of normal were not unusually heavy last week, and the market appeared rather quiet, with the supply comfortable. Increased production has kept triple available. No price change in either variety could be noted.

Output of superphosphate in New Zealand set a new record during the 1953-54 fiscal year, when 708,099 long tons were produced—15 percent more than in the preceding year—according to the latest annual report of the New Zealand Department of Agriculture. Superphosphate and its mixtures are the only fertilizers manufactured in New Zealand. Potash and nitrogenous fertilizers, which are imported, are used to a much lesser extent than superphosphate. Imports of the potassic and nitrogenous materials have fluctuated from year to year but the trend in general has been upward.

**Tankage**—Slow stockfeed demand here and in the midwest has resulted in lower prices. Local sellers named $7 per unit or ammonia and Chicago $7.75.

**Mica**—Domestic material is priced lower at $110 per ton in bags, carlots, works. The downward revision was made to place the market in a more favorable competitive position.

### Los Angeles Market

*Los Angeles.*—About the only interest of note in this market last week obtained in phosphates, which were in active demand for immediate spreading requirements, while suppliers of materials covering the balance of the list of organics and inorganics found the market picture rather dull. Nitrate of soda, at its reduced price schedule, did not bring out any particular new interest, although in another division of the nitrogen picture, ammonium sulphate was said to have had a brief flurry of activity. Animal products were on the easy side.

Ruling prices were:—Ammonium nitrate—$89.84 per ton, domestic and Canadian, f.o.b. Los Angeles.

Ammonium phosphate—Interest was strong. Quoted at $80.14 per ton in bags, 16/20 grade, f.o.b. Los Angeles. $107.64 per ton, bagged, 11/48 grade. $100.24 per ton, 13/39 grade, domestic, bags, f.o.b. Los Angeles.

Ammonium sulfate—$55.93 per ton, bags, Canadian and domestic material, f.o.b. Los Angeles. Bulk, less $3 per ton.

Blood meal—$6.50 per unit of ammonia at source. Bone meal—$82 per ton, steamed, domestic, f.o.b. Los Angeles.

Calcium nitrate—$48 per ton, 15½ percent nitrogen, c.i.f. Los Angeles Harbor.

## Pesticides

Market situation remained quiet last week with production down and several plants closed for the season. There was an absence of important domestic interest although prices were sustained except for export where competition has featured late procurement orders. A bid for a small quantity of 75 percent DDT wettable powder was opened in Washington and according to trade advices, the price range extended from 24c. to 25c. per pound. Large air shipments of dieldrin left the United States recently on an emergency flight to malaria-stricken East Pakistan. The insecticide was used to control mosquitoes and other insects that swarmed over the country on the heels of recent floods. An epidemic of malaria followed the mosquito invasion. The airlift of insecticides to East Pakistan was made in response to an urgent appeal from the American Embassy there.

According to the Department of Commerce, 60 percent of Syria's 1953 imports of pesticides for agriculture and public health uses were supplied by the United States. Competition from European suppliers already is evident, however, and U. S. manufacturers may have to extend their terms of credit and increase promotional activities to retain the Syrian market. Syrian consumption of pesticides in 1953 totaled slightly over 1,000 metric tons, 600 of which were sulfur. Twice as much is expected to be used by 1960. Nicotine sulfate, with an output of 2,600 pounds a year, is the only pesticide produced in Syria.

*For Late Market Developments, See Page 4*


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# Drugs, Fine Chemicals, Botanicals

The price of resublimed iodine and potassium iodide, the major iodine salt, was reduced 25 cents per pound late last week. These were the only price changes noted in this market.

The possibility that isoniazid, one of the so-called wonder drugs used in the treatment of tuberculosis, may have some value in the treatment of the dread disease, multiple sclerosis, was made known last week through the Veterans Administration. As a result of limited clinical testing in a VA hospital, there appeared to be some beneficial effect from the drug. However, the need for further study under carefully controlled conditions was stressed and to that end various VA hospitals will pool their resources. Authorities cautioned that the program of evaluating the effect of isonaizid on multple sclerosis may require years before even a preliminary objective answer may be given as to its value. Demand for isoniazid in regard to treatment of tuberculosis was reportedly fair while supplies were adequate to meet consumer requirements. Prices were unchanged.

Supplies of theobromine were said to be growing tighter as a result of the lessened demand for natural caffeine and the growing scarcity of raw material. Theobromine manufacture, as an adjunct of natural caffeine production has been affected by the diminishing demand for natural caffeine which has resulted from the ready availability of synthetically produced caffeine, at a competitive price level.

Since theobromine is produced from cocoa bean cake, the price of which has advanced considerably due to the rise in raw bean prices over the past year, producers have been increasingly hard pressed, profitwise. The possibility of further price advances in theobromine this year was said to be strong in view of the increased production costs. Demand for this drug was said to be moving at fairly brisk levels.

The tartrates were reported to be moving at generally good levels. Price-wise, the market was very firm. Competition from lower priced imported tartaric acid and cream of tartar has dwindled into insignificancy, according to trade sources. Domestic tartrate manufacturers report that production costs have been steadily on the increase as a result of higher raw material costs, in this case, argols. European producers, of late, have been selling increased quantities to Russia and her satellites, who have apparently been willing to pay prices on a par with those paid by producers in this country.

**Isoniazid**—Demand for this compound was reported to be at fair levels, on the whole. Supplies were adequate to meet consumer requirements and expected to continue in the immediate future. Prices ranged from $23 to $25.50 per kilo in lots of 25 kilos or more while smaller quantities were pegged at $24 to $26 per kilo.

The Veterans Administration has announced that further studies of an inadvertent discovery that isoniazid may be of value in the treatment of multiple sclerosis, a disease for which no cure is presently known, will be made.

As a result of an observation in the Bronx, N. Y., VA hospital, isoniazid has been tried with what appears to be promising results on 30 of the hospital's patients suffering from multiple sclerosis.

The Bronx hospital discovery occurred when a chronically ill patient, having received isoniazid for another purpose, was noted to speak more distinctly. The drug then was tried sporadically in varying dosages on a few other patients. When there seemed to be some beneficial effect from the drug, a limited study was begun. It was reported that 27 of the 30 multiple sclerosis patients treated with isoniazid seemed to show some improvement.

However, the need for further studies under carefully controlled conditions among a larger group of patients was emphasized. It was further stated that if isoniazid should prove, under further study, to be an active agent in multiple sclerosis, a better drug might more readily be found.

**Lithium Hydroxide**—The market was unchanged. Supplies were ample for current inquiry and demand was generally steady. Current quotations were at $1.10 per pound, in ton lots.

Europe is the major source of argols used by domestic manufacturers, domestic wine producers supplying only a small amount of argols used. Argols quotations have advanced substantially as Russia and her satellite countries become an important factor in consumption. As a result, foreign argols producers have expressed less interest in the American market since consumers abroad have been willing to pay prices on a par with those offered by tartrate producers here. Imported tartaric acid as a source of competition, to domestic manufacturers has become increasingly insignificant as less and less imported tartaric acid is coming into this country due to importers' high costs, it was said.

Prices were very firm on tartaric acid and there was a possibility that future advances were likely if argols costs advance out of hand, it was said. Supplies were adequate to meet consumer needs, but far from excessive, it was noted.

**Molasses**—East coast prices for cane blackstrap were reduced ½c. during the week ending October 19, 1954, while prices at most other points remained steady. Shipments out of Gulf points continued at a good pace but evidence of hand-to-mouth buying still prevailed. New Orleans price for cane blackstrap was 10c. to 10¼c. (mostly 10¼c.) per gallon. The Beaumont blackstrap price was reduced to 10.75c. per gallon. West coast price for cane blackstrap continued at $19 per ton with a good to moderate demand. Cooler weather in the New England states is expected to reflect increased molasses usage in that area within the next few weeks. Pastures have been above normal for this period. Some increased demand is already noted at East coast points.

Beet molasses demand was generally moderate with prices unchanged, as more supplies are now available in the Rocky Mountain area. Denver price for beet molasses continued at $33 per ton. The demand for citrus molasses was good at most Florida points as supplies are becoming increasingly limited. No change was reported in hydrol market as a moderate demand continues at all production points.

**Tartaric Acid**—Demand for tartaric acid was reported to be moving at good levels. Considerable quantities of tartaric acid are used in candy manufacture and the rapidly approaching holiday season heralds the acceleration in production of such items, it was said. The supply situation appeared to be growing more critical, according to some trade sources, as a result of the tightness in argols, the raw material used in the manufacture of tartaric acid and its salts.

**Theobromine**—With a lessened demand noted for natural caffeine, it was expected that production of theobromine would, as a consequence, become more costly to produce. There were some predictions of further price rises in the future. The supply-demand situation was tending toward tightness in the former, it was noted.

## Botanicals

Demand for botanicals, on the whole, was seasonally active. Items going into cough and cold remedies such as white pine, cocillana and wild cherry barks, were moving satisfactorily. Although shipments of cocillana bark have been delayed in some instances, consumer demand has apparently adjusted to supply.

Shortages in certain botanicals continued last week with little chance for any immediate improvement in supply. Lobelia herb continued virtually nominal in price although there were some sales made to contract customers, it was said. It was understood that there was some herb in shippers' hands in collection areas but it was being held back to await higher market

*For Late Market Developments, See Page 4*

### *Price Trends*

**Advanced**

None

**Reduced**

Iodine, resublimed, USP, 25c. per lb.
Potassium iodide, 25c. per lb.

**Comparative Price Indexes**

(100—1949 average)

| Last week | Prev. week | Last month | Oct. 23, 1953 |
|---|---|---|---|
| 66.93 | 66.96 | 66.79 | 73.26 |

*(For Current Prices see page 9)*


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prices. Since lobelia is the source for the manufacture of lobeline sulfate, the essential ingredient in preparations sold to consumers for the purpose of breaking the tobacco habit, any new publicity on the relationship of tobacco to cancer could be expected to step up the demand for lobeline sulfate considerably with a resultant upsurge in the call for lobelia herb.

Shipment prices for gums were reported to be strengthening substantially. In gum arabic, the next collections are not expected until Spring, 1955 and stocks on hand were expected to have to meet consumer demand until then. Offers from origin on gum arabic were reported to be virtually nil. Although replacement costs have been steadily rising, dealers have been reluctant to advance spot prices, since demand locally has been only fair, according to trade sources. Gum karaya prices were noted to have advanced abroad and supplies were limited by rainy weather in collection areas, it was said. Gum tragacanth was also firmer as dealers moved to cover advanced replacement costs.

**Copaiba Balsam**—Demand for this item was reported to be generally routine. Supplies were ample for current inquiry and expected to continue in the immediate future.

**Gum Arabic**—There has been an appreciable price rise in this gum in recent weeks. With the next crop not expected until Spring of 1955, current stocks both here and abroad were expected to have to accommodate demand until then. Overall world demand was estimated to exceed available supplies and as a result, dealers here were forced to pay increasingly higher replacement costs as the market at origin reflects the situation with higher shipping quotations. Offers from source were said to be almost nil.

Local demand was not too good, according to trade sources and dealers have been selling mostly hand to mouth with profits held down to minumum levels. Dealers have been cautious in advancing spot prices in an effort to avoid discouraging consumer buying. The possibility of further price rises was thought to be probable in view of the fact that stocks at origin were said to be limited. Current prices on amber sorts ranged from 20c. to 21c. per pound while powdered USP material ranged from 26c. to 28c. per pound.

**Gum Karaya**—The spot market has advanced to reflect higher replacement costs quoted from origin. Heretofore, the spot market has been slow to mirror higher costs at origin since dealers here have been reluctant to advance prices until absolutely necessary. Competition among dealers has been keen with consumers buying mostly on a hand to mouth basis and shopping around more than formerly, it was said.

Current quotations ranged from 38c. to 42c. and No. 1 gum; 32c. to 36c. on No. 2 and 27c. to 30c. on No. 3 gum karaya. Supplywise, gum karaya was reportedly limited. Rainy weather was said to have made the gum more difficult to obtain and consequently, collection was reduced. Offers for November-December shipments have been received, it was said.

**Gum Tragacanth**—The market was stronger on spot as dealers moved to increase prices to cover higher replacement costs. The market at origin has strengthened according to trade reports but demand from consumers remained fair, on the whole. Profit margins have been reduced, accordingly, with dealers reportedly reluctant to advance prices and competition heavy among sellers with price shading a common occurrence.

Tragacanth gum No. 1 was quoted at $2.95 to $3 per pound while No. 2 was steady at $2.45 to $2.50 and No. 3 grade at $1.75 to $1.80 per pound.

**Lobelia Herb**—Spot supplies continued on the tight side although there were some odd lots to be had at prices ranging from $1.25 to $1.50 per pound. The outlook for consumers until the next crop due next Summer is quite discouraging, according to trade sources. Virtually every pound of lobelia herb on spot has been accounted for by prior commitments and although some material was reported to be in shippers' hands at origin, it was almost a certainty that dealers would have to pay higher prices on replacement with the ultimate consumer being forced to pay prices higher than those currently in force.

**Senega Root**—Spot prices continued very firm in face of the shortage of this root. Collections this year were quite poor due to adverse weather conditions and the next crop is not due until well into 1955. Current quotations ranged from $3 to $3.30 per pound.


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## DuPont Picks Dr. Fleming As Medical Division Director

Dr. Allan J. Fleming has been appointed director of the medical division of E. I. duPont de Nemours & Co., Wilmington, Del., to succeed Dr. George H. Gehrmann. Dr. Gehrmann has retired as director, after holding that post since 1926, but will continue as associate medical director until his retirement from the company November 1 of next year.

Dr. Fleming had been assistant director of the division since 1948, and has been succeeded in that post by Dr. C. A. D'Alonzo. After joining the company as a toxicologist in the Haskell laboratory in 1937, Dr. Fleming became assistant director of the laboratory in 1941. Dr. D'Alonzo joined duPont in 1939 as medical supervisor at the experimental station in Wilmington.

## Carbon-14 Glucose, Mannose Are Available from Schwarz

Schwarz Laboratories, Inc., Mount Vernon, N. Y., has announced the availability of C-14 uniformly labeled glucose, mannose, and yeast polysaccharides. Glucose and mannose are supplied with a high level of activity of about 2 uc. per milligram and a low specific activity of up to 1 uc. per milligram, the company stated.

## Pfizer Names Two in Sales

J. Elmer Wolke has been named to represent the chemical sales division of Chas. Pfizer & Co., Brooklyn, N. Y., in northern New Jersey and Roger K. Waters, jr., has been appointed to represent the division in Maryland, Virginia, the District of Columbia, Delaware and parts of West Virginia, it has been announced by Frank F. Black, sales manager. Mr. Wolke formerly represented the company in the middle Atlantic states while Mr. Waters was previously a Pfizer representative in the New York metropolitan area.

### Cutter Signs Polio Vaccine Contract

Cutter Laboratories, Berkeley, Cal., has signed a contract with The National Foundation for Infantile Paralysis to produce Salk polio vaccine for the foundation's use.

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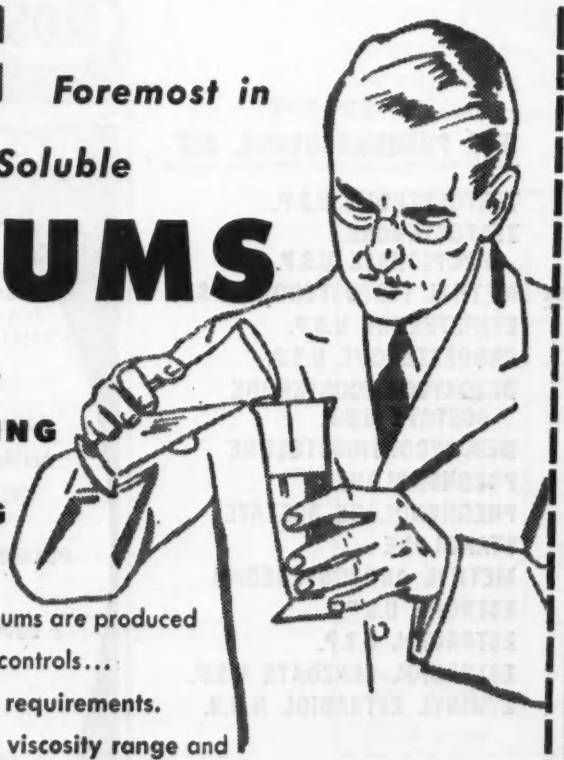

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# Obituaries

### Earl Beck

Earl Beck, executive vice-president of Eli Lilly & Co., Indianapolis, Ind., died October 15 in that city. He was fifty-nine years old. Mr. Beck had been associated with Lilly since 1914, when he joined the company as a motion-and-time-study trainee in what was then known as the efficiency division. Later, he advanced to become director of that division, and in 1944 he was named vice-president of industrial relations.

A member of the Lilly board of directors, Mr. Beck had held the position of executive vice-president since 1952. In this capacity, he was responsible for the production, operations planning, development and control, and biochemical manufacturing phases of the company. For most of his career, however, he was identified with personnel work in the interest of Lilly employees.

### Dr. William L. Evans

Dr. William L. Evans, chairman of the chemistry department of Ohio State University, and noted for research in carbohydrates, died October 18 in Columbus, Ohio. He was eighty-three years old. Dr. Evans during his tenure at Ohio State also served as consultant for Lowe Brothers Company, Dayton, Ohio, and Columbus Coated Fabrics Corporation, Columbus. He was a member of the National Research Council's committee on carbohydrate research in 1926 and 1927, and a member of the council's divisions of chemistry and chemical technology.

### Dr. H. F. Smyth, sr.

Dr. H. F. Smyth, sr., widely-known pioneer in the field of industrial hygiene research and professor emeritus of industrial medicine at the University of Pennsylvania, died October 15 in Pocasset, Mass. He was seventy-eight years old. Dr. Smyth at one time served with the Public Health Service and investigative groups studying anthrax in the tanning industry, tobacco dust in cigar factories, and poisonous fumes in the paint manufacturing field.

**Douglas W. Demler,** New Jersey district sales manager for Dragon Cement Company, New York, died October 19 in Watchung, N. J. He was sixty years old.

**Harold Frost,** statistician with Union Carbide & Carbon Corporation, New York, until his retirement, died October 15 in Yonkers, N. Y. He was sixty-seven years old.

**Arthur J. Howe,** salesman for Pittsburgh Plate Glass Company, Pittsburgh, Pa., died October 7 in Toledo, Ohio.

**Frederick J. Kasper, sr.,** a fuel engineer with Eastern Gas & Fuel Associates, a division of Koppers Company, Pittsburgh, Pa., died October 19 in Philadelphia. He was sixty-four years old.

**Harold M. Knoerle,** employment manager and formerly chief accountant at Jones & Laughlin Steel Corporation, Pittsburgh, Pa., died October 20 in Cleveland, Ohio. He was fifty-four years old.

**Glenn M. Loomis,** chief engineer for Durez Plastics & Chemicals, Inc., North Tonawanda, N. Y., died October 18 in Buffalo, N. Y. He was sixty-two years old. Mr. Loomis joined the company in 1928.

**Jackson R. Schonberg,** a staff engineer in the Esso engineering department of Standard Oil Development Company in Linden, N. J., died October 19 in Westfield, N. J. He was fifty-six years old.

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# Pharmacy's Public Health Role Described

—Continued from page 7

ice correlate understanding of the problem and available skill and funds.

George Bugbee, president of the Health Information Foundation, told the gathering that "in the context of modern medical care, the price of services including that of drugs is small indeed compared to the public's indebtedness to the courage, foresight and scientific contributions of all those who serve the patient in time of illness. However," Mr. Bugbee continued, "the truth which is so obvious to all of us must be repeatedly interpreted to the individual patient in relationship to his own treatment, if he is to accept with any satisfaction the present cost of this valuable medical care."

**Need for Vigilance Stressed**

"The price of good health, like that of liberty, is vigilance," said Dr. Lloyd C. Miller, director of United States Pharmacopeial revision, in commenting on the safeguarding of health by guarding the quality of foods and drugs and maintaining watch over their distribution. He enumerated as the forces of vigilance, the laws and regulations at local, state and federal levels, declaring that "the greatest vigilance is that of the Food and Drug Administration," and he sketched briefly the operations under the food, drug and cosmetic act from its beginning in 1906, pointing out, by several examples, how earnest are the endeavors of the administrative staff to safeguard the public. His explanations of the federal vigilance encompassed the law as a whole, the new drug amendment and the Durham-Humphrey act. He also gave a brief explanation of the Harrison anti-narcotic law and the regulations on antibiotics.

The force of ethics as a means of vigilance also was discussed by Dr. Miller, encompassing the codes of manufacturers and dispensers and the standards set up in the United States Pharmacopeia, the National Formulary and New and Nonofficial Remedies. It was his belief that the need for vigilance would grow and would be met.

**Dispensing of Prescribed Medicines**

The public does not and cannot get a proper appreciation of the services of pharmacy or its importance from what it can see of a drug store, said Dr. George D. Beal, director of research at Mellon Institute and prominently active in USP affairs, whose topic was "The Pharmacist Serves with Many Hands." Referring to the professional responsibilities of pharmacy in the dispensing of prescribed medicines, he listed the following steps involved:-

1. The collection and defining of the basic materials used by the pharmaceutical chemists.
2. Chemotherapeutic and clinical research to evaluate new drugs and especially to develop new and more efficient types of medication.
3. The control, by supervision and analytical technic, of manufacturing operations.
4. The development of more effective dosage forms.
5. Pharmaceutical manufacturing.
6. The proper preservation of pharmaceuticals.
7. Advertising, detailing and wholesale distribution.
8. Quality control during distribution, including the enforcement of the "pure drug" laws.
9. Retail distribution, including the compounding of the physician's prescription.

Dr. Beal traced interestingly the development of materia medica from the days of the herbalist to those of the chemotherapist, briefly evaluating the contributions of the progressive stages, elaborating somewhat on the antibiotics. He also discussed appraisingly the evolution of pharmaceutical education in the current century, in that connection paying tribute to Prof. Charles F. Chandler for his promotion around the turn of the century, of the chemical phases of the curriculum. Pharmacy, he said, is "a distinguished profession, capable of maintaining its own self respect, and its agencies, particularly its colleges, are to be congratulated upon the fearlessness with which they have stood for a better profession."

**Pharmacy as Information Center**

Evaluating the pharmacy as the community's health information center, Newell Stewart, executive vice-president of the National Pharmaceutical Council and president of the American Pharmaceutical Association, said that the American pharmacy "is no more just a store than Tiffany's is just a watch-repair shop. It is, besides being a pharmacy, a library, a meeting place, a gift shop, an emergency ward, a social center, a post office, a restaurant, and, with industry ledgers that possibly date back fifty to a hundred years, a repository of community secrets and vital statistics."

As almost 21,000,000 persons visit the drug stores of the country each day, the pharmacy's relations with the public are broad, as well as close, and its influence on its community is potent in many ways. Various ways in which that influence can be utilized were set forth by the speaker. On the other side, he pointed to the challenge for pharmacy in the changing times and the rapidly developing ramifications of pharmacology, and he urged that pharmacists be proud of the work they are doing and of the time-honored profession to which they belong.

Because of the illness of Dr. W. Paul Briggs, executive director of the American Foundation for Pharmaceutical Education, his comment on the role of pharmacy in the future of public health was presented by Dr. Leo Bliven, dean of the School of Pharmacy of George Washington University. It was an interesting prediction of progress in the next twenty-five years in the treatment of infectious diseases, cardiac and nephritic afflictions, degenerative ailments and other deviations from good health.

It also saw significant advances in the practice of pharmacy, from moral standards to store arrangement, making the basic functions of pharmacy more apparent to the public.


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| $Fe_2O_3$ | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.08 | | 0.15 |
| $Al_2O_3$ | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.08 | | 0.15 |
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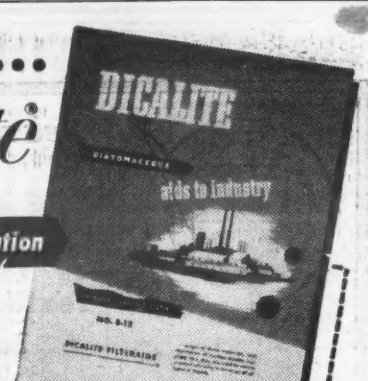


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DEXTRIN—50 bgs, Manhattan Paste & Glue Corp, Amsterdam
200 bgs, Morningstar Nicol, Rotterdam
EARTH COLORS—187 dms, Baker Iron & Dockstader, Bremen
896 bgs, Landers Segal Color Co, Mossel Bay
450 bgs, T H Deutz, Rotterdam
ESPARTO WAX—32 bgs, Wm Diehl & Co, Glasgow
EUCALYPTUS OIL—11 dms, Corn Exchange Bank, Barcelona
FENNEL SEED—364 bgs, M J Golombeck, Rijeka
FISHLIVER OIL—3 dms, Arista Oil Products Co, Yokohama
1 dm, R W Strauss, Yokohama
FUEL OIL—103,366 bbls, Paragon Oil Co, Punta Cardon
131,348 bbls, Paragon Oil Co, Curacao
102,422 bbls, Esso Standard Oil Co, Aruba
230,213 bbls, Esso Standard Oil Co, Caripito
102,964 bbls, Asiatic Petroleum Corp, Curacao
117,046 bbls, Metropolitan Petroleum Corp, Punta Cardon
113,513 bbls, Shell Caribbean Petroleum Co, Curacao
102,422 bbls, Shell Caribbean Petroleum Co, Punta Cardon
GALLIC ACID—10 dms, Glasgow
GELATIN—101 bbls, Coignet Chemical Co, Antwerp
306 bgs, Transatlanic Animal By Products Corp, Hamburg
140 bgs, G G Lippelgoes, Manchester
GLUE—150 bgs, Corbett & Co, Bordeaux
STOCK—236 bls, Darmstadt Scott & Courtney, Havana
39 bdls, Herman Hollander, Barranquilla
GLYCERINE—42 dms, R P Casado, Havana
GRAPHITE—620 bgs, Joseph Dixon Crucible Co, Hamburg
500 bgs, Asbury Graphite Mills, Tamatave
675 bgs, C Pettinos, Hongkong
GUAIACWOOD OIL—95 cs, Buenos Aires
GYPSUM—4,560 tons, Newark Plaster Co, Walton
10,267 tons, U S Gypsum Co, Hantsport
10,398 tons, National Gypsum Co, Dingwall
HOOF & HORNMEAL—510 bgs, Wessel Duval & Co, Buenos Aires
KIESELGUHR—125 bgs, Oran
LACTOSE—25 dms, Rotterdam
20 bgs, Rotterdam
LAUREL LEAVES—167 bls, M J Golombeck, Piraeus
120 bls, Lisbon
LAVENDER OIL—3 cont, Roubechez Inc, Marseille
LEMON OIL—10 hf cs, Citrus & Allied Eccential Oil Co, Messina
10 dms, Vera Cruz
LIVERMEAL—400 bgs, Wessel Duval & Co, Montevideo
LOCUST BEAN GUM—690 bgs, Stein Hall & Co, Valencia
500 bgs, J L Quesada, Valencia
400 bgs, Stein Hall & Co, Genoa
150 bgs, Uni Gum Corp, Amsterdam
200 bgs, P A Dunkel, Amsterdam
100 bgs, Morningstar Nicol, Liverpool
MACE—7 cs, Internatio Rotterdam, Macassar
27cs, Catz American Co, Macassar
MAGNESITE—3,330 bgs, Golwynne Chemical Corp, Madras
MANGROVE BARK—1,800 bgs, River Plate Corp, Tumaco
MARJORAM—20 bgs, Marcel Calvet, Ciudad Trujillo
1,150 bgs, Messina
MENTHOL—37 cs, Consumers Import Co, Marseille
MERCURY—100 btls, Mercantile Metal & Ore Corp, Rijeka
117 flks, Mercantile Metal & Ore Corp, Vera Cruz
50 flks, Lo Curto & Funk, Tampico
215 flks, Tampico
MONTAN WAX—10 bgs, Wax & Rosin Products, Bremen
MUSTARD OIL—10 cs, Lo Curto & Funk, Hamburg
SEED—530 bgs, Becker Mayer Seed Co, Copenhagen
500 bgs, Catania
NAPHTHALENE—1,000 bgs, Chase National Bank, Antwerp
3,312 bgs, Koppers Co, Liverpool
500 bgs, Antwerp
NAPHTHOL—3 [illegible] Hensel Bruckmann & Lorbacher, Rotterdam
2 dms, C A [illegible], Rotterdam
NICKEL SULFATE—166 bbls, Public National Bank, Helsinki
NIGER SEED—706 bgs, Corn Exchange Bank, Massawa
118 bgs, Massawa
m-NITRO-p-TOLUIDINE—8 dms, Filo Color & Chemical Corp, Rotterdam
OCOTEA CYMBARUM OIL—8 dms, Lo Curto & Funk, Italy
14 dms, George Uhe Co, Itajai
21 dms, Bank of London & S A, Rio de Janeiro
OLIVE OIL—285 dms, Credit Suisse, Seville
50 dms, Hanover Bank, Seville
100 dms, Chemical Bank, Seville
25 dms, National City Bank, Seville
104 dms, Credit Suisse, Malaga
105 dms, Chase National Bank, Malaga
27 dms, National City Bank, Malaga
25 dms, Manufacturers Trust Co, Seville
544 dms, National City Bank, Algiers
326 dms, Credit Suisse, Algiers
50 dms, M De Rosa, La Coulette
130 dms, Pastene & Co, La Coulette
115 dms, National City Bank, Barcelona
50 dms, Public National Bank, Barcelona
25 dms, Hanover Bank, Barcelona
ORRIS ROOT—50 bgs, Irving Trust Co, Leghorn
PALM OIL—329 tons, Imperial Commodities Corp, Pelawan Deli
PALMAROSA OIL—4 cont, Roubechez Inc, Marseille
PAPAIN—45 cs, East Asiatic Co, Dar es Salaam
153 cs, Lo Curto & Funk, Colombo
PAPRIKA—815 bgs, A A Sayia, Alicante
100 bgs, P H Petry, Alicante
125 bgs, Alicante
PATCHOULI OIL—3 dms, Calvert Vavasseur, Penang
1 dm, Antoine Chiris Co, Penang
PEATMOSS—8,750 bls, Premier Peatmoss Corp, Bremen
1,000 bls, Lion Trading Co, Bremen
3,800 bls, Lewis International Co, Bremen
1,000 bls, E J Lang, Bremen
1,000 bls, Lind Fors Chemical Co, Bremen
1,600 bls, J E Bernard, Bremen
1,500 bls, Bruco Peatmoss Corp, Bremen
1,000 bls, Gelico Inc, Bremen
1,000 bls, E Dunwoody, Bremen
1,000 bls, New Amsterdam Import Co, Bremen
PEPPER, BLACK—420 bgs, Far Eastern Rubber Importers, Kuching
970 bgs, G H Winram, Kuching
70 bgs, A C Israel, Kuching
105 bgs, R Badenhop Corp, Kuching
35 bgs, Joensson & Cross, Kuching
140 bgs, Internatio Rotterdam, Kuching
42 bgs, R Badenhop Corp, Singapore
400 bgs, A C Israel, Oosthaven
82 bgs, Internatio Rotterdam, Oosthaven
80 bgs, Mincing Trading Corp, Oosthaven
80 bgs, Internatio Rotterdam, Cochin
40 bgs, Ludwig Mueller, Cochin
80 bgs, Mincing Trading Corp, Cochin
1,680 bgs, M Rothschild & Co, Oosthaven
160 bgs, Ludwig Mueller, Mangalore
160 bgs, L D Seymour, Cochin
360 bgs, Volkart Bros, Cochin
35 bgs, Becker Mayer Seed Co, Singapore
240 bgs, Internatio Rotterdam, Singapore
80 bgs, Mincing Trading Corp, Singapore
1,090 bgs, Borneo Sumatra Trading Co, Singapore
140 bgs, Polak Trading Co, Singapore
21 bgs, Lo Curto & Funk, Singapore
140 bgs, Ludwig Mueller, Singapore
560 bgs, Borneo Sumatra Trading Co, Kuching
210 bgs, Singapore
RED—200 bgs, Mersin
WHITE—321 bgs, Internatio Rotterdam, Pangkal Pinang
80 bgs, A G Dunn, Pangkal Pinang
PETITGRAIN OIL—68 cs, Magnus Mabee & Reynard, Buenos Aires
13 cs, Lo Curto & Funk, Buenos Aires
11 dms, First National Boston, Buenos Aires
6 dms, C Tennant Sons & Co, Buenos Aires
PETROLEUM, CRUDE—400,000 bbls, Esso Standard Oil Co, Puerto La Cruz
200,417 bbls, California Oil Co, Sidan
112,316 bbls, Esso Standard Oil Co, Cartagena

*Continued on page 63*

# *Pesticide Residue Safety Limits Are Proposed*

—*Continued from page 3*

ance In a number of cases the evidence received in the 1950 hearings was not sufficient to permit the establishment of a satisfactory tolerance.

Applications to establish tolerances for these pesticides, and for any new pesticide chemicals, or to revise existing tolerances, would also be processed under the new Miller amendment. Zero tolerances would be set whenever it is found that any amount of residues of a pesticide, however small, would be unsafe for consumers, or where there was insufficient data to establish safety.

The proposed regulations under the new law would:—

1. Set up exemptions for a group of common pesticides which are entirely safe when properly used on growing crops. These are:—Common copper compounds (except those containing arsenic); petroleum oils; pyrethrum, rotenone, and four synergists used to enhance their effects; ryania, and sabadilla. The latter two, like pyrethrum and rotenone, are insecticides derived from plants. The exemptions do not apply when this group of materials is used at time of harvest or after harvest.

2. Establish operating procedures and fees to make administration of the new law self-supporting. The proposed application fee for a new tolerance is $500 and for extending a tolerance to additional crops, $140.

3. Set up a procedure for the appointment by the department of experts selected by the National Academy of Science to committees to advise the department in regard to controversial scientific questions arising in the establishment of tolerances. The cost of an advisory committee would be paid by the person requesting that it be appointed.

**Pesticide Tolerances Are Tabulated**

The following is a tabulation of pesticides for which proposed tolerances have been set, the amount of the tolerances and the food crops to which each applies:—

| Pesticide | Tolerance in p.p.m. | Fruits and vegetables to which tolerance applies. |
|---|---|---|
| Aldrin | 0.1 | Potatoes and sweet potatoes. |
| Benzene hexachloride | 5 | Apples, pears, quinces, apricots, avocados, cherries, citrus fruits, grapes, guavas, mangoes, peaches, nectarines, pineapples, plums, strawberries, asparagus, beans, black-eyed peas, broccoli, cabbage, brussels sprouts, kohlrabi, cauliflower, corn, eggplants, kale, collards, lettuce, mustard greens, okra, onions, peas, peppers, spinach, Swiss chards and tomatoes. |
| Calcium arsenate | 3.5 of combine $As_2O_3$ | Blueberries (huckleberries), raspberries, blackberries, loganberries, strawberries, asparagus, beans, black-eyed peas, broccoli, cabbage, brussels sprouts, kohlrabi, cauliflower, carrots, celery, corn, cucumbers, eggplants, kale, collards, melons, peppers, pumpkins, spinach, squash, tomatoes and turnips. |
| Copper arsenate | 3.5 of combined $As_2O_3$ | Cabbage, brussels sprouts, kohlrabi, cauliflower, carrots and tomatoes. |
| DDT | 7 | Apples, pears, quinces, apricots, avocados, blueberries (huckleberries), cherries, citrus fruits, cranberries, currants, gooseberries, grapes, guavas, mangoes, papayas, peaches, nectarines, pineapples, plums, raspberries, blackberries, loganberries, rhubarb, strawberries, artichokes, asparagus, beans, black-eyed peas, beets, broccoli, cabbage, brussels sprouts, kohlrabi, cauliflower, carrots, celery, corn, cucumbers, eggplants, endive, kale, collards, lettuce, melons, mushrooms, mustard greens, okra, onions, parsnips, peanuts, peas, peppers, pumpkins, radishes, rutabagas, spinach, squash, tomatoes and turnips. |
| Chlordan or haptachlor | 0.1 | Potatoes. |
| 2,4-Dichlorophenoxy acetic acid Dicyclohexylamine salt of dinitro-o-hexyl-phenol | 5 | Apples, pears, quinces and citrus fruits. |
| | 1 | Apples, pears, quinces, apricots, cherries, grapes, peaches, nectarines, plums, raspberries, blackberries, loganberries, strawberries, beans, black-eyed peas and celery. |
| Dieldrin | 0.1 | Apples, pears, quinces, apricots, cherries, peaches, nectarines and onions. |
| EPN | 3 | Apples, pears, quinces, aricots, cherries, citrus fruits, peaches, nectarines, pineapples, plums, raspberries, blackberries, loganberries, strawberries, corn, lettuce, spinach, turnips, beans, black-eyed peas and beets. |
| "Forbam" | 7 | Apples, pears, quinces, apricots, blueberries (huckleberries), cherries, cranberries, currants, dates, gooseberries, grapes, guavas, mangoes, papayas, peaches, nectarines, plums, raspberries, blackberries, loganberries, beans, black-eyed peas, beets, broccoli, cabbage, brussels sprouts, kohlrabi, cauliflower, collards, carrots, celery, cucumbers, eggplants, kale, lettuce, melons, mustard greens, onions, peanuts, peas, peppers, pumpkins, radishes, squash, tomatoes and turnips. |
| Fluorine compounds | 7 of combined fluorine | Apples, pears, quinces, apricots, blueberris, (huckleberries), citrus fruits, cranberries, grapes, peaches, nectarines, plums, raspberries, blackberries, loganberries, strawberries, beans, black-eyed peas, beets, broccoli, cabbage, brussels sprouts, kohlrabi, cauliflower, carrots, corn, cucumbers, eggplants, kale, collards, lettuce, melons, mustard greens, okra, peanuts, peas, peppers, pumpkins, radishes, squash, tomatoes and turnips. |
| 2-Heptadecyl glyoxalidine | 5 | Apples, pears, quinces, cherries, raspberries, blackberries and loganberries. |
| Lead arsenate | 7 of combined lead | Apples, pears, quinces, apricots, blueberries (huckleberries), cherries, cranberries, currants, gooseberries, grapes, mangoes, peaches, nectarines, strawberries, asparagus, celery, eggplants, peppers, tomatoes and avocados. |
| Lead arsenate | 1.0 of combined lead | Citrus fruits (grapefruit, lemons, oranges and tangerines). |
| Magnesium arsenate | 3.5 of combined $As_2O_3$ | Beans and black-eyed peas. |
| Methoxychlor | 14 | Apples, pears, quinces, apricots, cherries, cranberries, grapes, peaches, nectarines, pineapples, raspberries, blackberries, loganberries, strawberries, asparagus, beans, black-eyed peas, beets, broccoli, cabbage, brussels sprouts, kohlrabi, cauliflower, corn, cucumbers, eggplants, kale, collards, lettuce, melons, mushrooms, peas, peppers, pumpkins, radishes, squash, tomatoes and turnips. |
| Naphthalene acetic acid | 1 | Apples, pears and quinces. |
| Parathion | 1 | Apples, pears, quinces, apricots, avocados, cherries, citrus fruits, currants, dates, figs, gooseberries, grapes, guavas, mangoes, peaches, nectarines, pineapples, raspberries, blackberries, loganberries, strawberries, artichokes, beans, black-eyed peas, beets, broccoli, cabbage, brussels sprouts, kohlrabi, cauliflower, carrots, celery, corn, cucumbers, eggplants, kale, collards, melons, mustard greens, okra, parsnips, peas, peppers, pumpkins, radishes, spinach, squash, Swiss chard, tomatoes and turnips. |
| Phenothiazine | 7 | Apples, pears and quinces. |
| Sodium arsenate | 3.5 of combined $As_2O_3$ | Grapes. |
| Tartar emetic | 3.5 of combined antimony trioxide | Citrus fruits, grapes and onions. |
| TDE | 7 | Apples, pears, quinces, apricots, cherries, citrus fruits, grapes, peaches, nectarines, raspberries, blackberries, loganberries, strawberries, beans, black-eyed peas, broccoli, cabbage, brussels sprouts, kohlrabi, cauliflower, carrots, corn, eggplants, peas, peppers, spinach and tomatoes. |
| "Toxaphene" | 7 | Apples, pears, quinces, apricots, citrus fruits, peaches, nectarines, raspberries, blackberries, loganberries, strawberries, beans, black-eyed peas, broccoli, cabbage, brussels sprouts, kohlrabi, cauliflower, carrots, celery, corn, cucumbers, eggplants, lettuce, okra, onions, parnips, peas, radishes and tomatoes. |
| "Zineb" | 7 | Apples, pears, quinces, cherries, cranberries, gooseberries, grapes, peaches, nectarines, raspberries, blackberries, loganberries, strawberries, beans, black-eyed peas, beets, broccoli, cabbage, brussels sprouts, kohlrabi, cauliflower, carrots, celery, cucumbers, eggplants, endive, escarole, kale, collards, lettuce, melons, mushrooms, onions, parsley, peanuts, peas, peppers, pumpkins, radishes, salsify, squash, Swiss chard, tomatoes and turnips. |
| "Zineb" | | Apples, pears, quinces, apricots, blueberries (huckleberries, cherries, cranberries, gooseberries, grapes, peaches, nectarines, raspberries, blackberries, loganberries, beans, black-eyed peas, beets, broccoli, cabbage, brussels sprouts, kohlrabi, cauliflower, carrots, celery, cucumbers, eggplants, kale, collards, lettuce, melons, onions, parsnips, peas, peppers, pumpkins, radishes, squash, tomatoes and turnips. |

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| | |
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TYPICAL REACTIONS

$2CH_2(COOEt)_2 + 3RX \xrightarrow{Na} CHR(COOEt)_2 + CRR(COOEt)_2 + 3HX$
halogen cd. — mono- and di- substituted malonic esters

$CH_2(COOEt)_2 + HC(OR)_3 \xrightarrow{catalyst} ROCH = C(COOEt)_2 + 2C_2H_5OH$
trialkyl orthoformate — alkoxy-methylene malonic ester

$CH_2(COOEt)_2 + RRCO \xrightarrow{catalyst} RRC = C(COOEt)_2 + H_2O$
aldehyde or ketones — disubstituted methylene-malonic ester

$CH_2(COOEt)_2 + NH_2CONH_2 \longrightarrow NHCOCH_2CONHCO + 2C_2H_5OH$
urea — barbituric acid

(Many substituted malonates may be hydrolized and decarboxylated to the corresponding subst. acetic esters.)

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## MCA Study Shows Majority Of Executives Hold Degrees

More than one out of two chemical industry executives hold technical or scientific degrees, according to a recently-completed survey, it was announced yesterday in *Chemical News*, official publication of the Manufacturing Chemists' Association. The survey, which covered 1,930 executives from eighty-eight companies, also revealed that in addition to the 57 percent holding technical degrees, an additional 17 percent hold degrees in fields such as law, economics, business administration and liberal arts.

A wide variety of training was represented by those having technical or scientific degrees. Nineteen percent have degrees in chemistry and 17 percent in chemical engineering, or a total of 36 percent in fields directly related to chemistry. The balance of the technical degrees are principally in mechanical, civil, electrical and mining engineering.

## Upjohn Co. Sales Manager Named for Boston Branch

Upjohn Company, Kalamazoo, Mich., has named Dain L. Miller sales manager of its Boston branch and has announced three other appointments. Dr. Aaron D. Cooper has joined the physics department. W. T. Sokolski has joined the microbiology department, and Dr. Jacob Szmuszkovicz will do research in the chemistry department.

Mr. Miller joined the company's sales force in southern Illinois in 1933. He served as sales supervisor in the Chicago area and was recently promoted to divisional sales manager of the Boston branch.

## Norwich Appoints Agent

Norwich Pharmacal Company, Norwich, N. Y., has announced the appointment by its Canadian subsidiary, Norwich Pharmacal Company, Ltd., of VioBin (Canada), Ltd., as distribution agent in Canada for proprietary nitrofuran products for veterinary use. VioBin has headquarters in St. Thomas, Ontario.

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*See Page 61*

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# Essential Oils, Aromatics, Flavorings

Actual price changes in this market st week were mostly among seeds and ices. The essential oils market, in neral, continued very strong; citrus s, being the most notable exception the upward trend. With Summer st, demand for citrus oils has eased d prices, as a result, have weakened th considerable shading being done dealers reduce quotations to meet dividual competitive situations. rench oil of lavender flower and lem- grass oil continued to advance last eek, the former, very sharply. The or flower crop in France has been flected in higher raw material costs essential oil manufacturers with a sultant spectacular advance in prices r shipment. The market initially was w to react to conditions at origin nce many dealers were holding fairly od stocks of oil from the preceding op. As consumers stepped up con- mption to beat coming price in- eases, holders of lavender oil were rced to replenish stocks at higher ices and, of course, the effect in the ot market has been to drive quota- ons upward at a spectacular pace.

Lemongrass oil advanced a modest cents during the week but as soon the small amounts of lower priced l was sold, the increase should be sub- antially higher, it was said. Produc- on of lemongrass oil for the balance this year was expected to continue trail behind world consumption. The tlook for any possible improvement as virtually nil, with regard to supply, though a continued rise in prices uld have a dampening effect upon nsumer interest, it was noted. Cam- hor oil, citronella oil and ocotea cym- arum, continued in tight supply. edarwood oil was quite tight and ex- ected to remain so. Peppermint oil ices continued to strengthen due to e smaller than anticipated yield of gh quality oil. Interest in spearmint l was said to have increased as con- mers, in some quarters, made more se of this lower priced oil in their erations.

Among seeds and spices, the most otable price reductions were in black nd white pepper as well as pimento. Malabar pepper was off 4 cents per ound while white pepper was down 2 ents. Jamaican new crop pimento was cents lower while Mexican quality de- lined 10 cents. Ginger was stronger as amaica No. 2 advanced 5 cents and o. 3, 3 cents per pound, on spot. Dutch araway seed advanced ½ cent while Vest Indian mace and East Indian nut- egs advanced 1 cent, respectively.

## Essential Oils

**Bois de Rose**—The spot market was very rm in view of the situation at origin. urrent prices ranged from $4.50 to $6 er pound, although the stock of the lower riced oil was said to be dwindling fast. t appeared a certainty that dealers hold- ng the lower cost oil would have to ad- ance their schedules to cover high re- lacement costs.

**Citronella**—The market, on spot, con- nued very firm in face of a world short- ge of this important oil. The tension in he Far East has helped to maintain high rice levels in addition to the fact that hippers in Formosa were reportedly hard ressed to meet contract commitments and ave been forced to enter the open market o cover themselves thus boosting prices here. On spot, citronella oil, Java and ava type (Formosan) ranged from $1.40 o $2 per pound, depending upon supplier nd quantity sold.

**Lavender Flower**—Spot prices continued o advance very sharply last week with he highest quality oil rising to $1.90 per ound over preceding week's levels. The urrent market on 40-42 percent grade was $10 to $14 per pound with the lim- ted supply of oil at the lower price was xpected to be sold out in a very short ime. The 38-40 percent grade was up $1.50 per pound, on spot, and ranged from $9.50 to $13.20 per pound. The 30-32 per- ent oil was advanced 40c. over previous evels and was quoted at $3.55 to $4.60.

**Lemongrass**—This oil continued to ad- vance quite steadily. Spot prices were up 20c. per pound over the preceding week nd were quoted at $2.30 to $2.75 per ound. The outlook for consumers re-

### *Price Trends*

**Advanced**

Caraway seed, Dutch, ½c. per lb.
Cassia, Batavia, cuttings, ¼c. per lb.
Celery seed, French, 2c. per lb.
Indian, ½c. per lb.
Ginger, Jamaica, #2, 5c. per lb.
#3, 3c. per lb.
Mace, West Indian, 1c. per lb.
Nutmeg, East Indian, 1c. per lb.
Oil, lavender flower, French, 30-32% ester, 40c. per lb.
38-40% ester, $1.50 per lb.
40-42% ester, $1.90 per lb.
Lemongrass, 20c. per lb.

**Reduced**

Cassia, Batavia, longstick, cracked, ½c. per lb.
shortstick, ½c. per lb.
Cinnamon, Ceylon, #2, 2c. per lb.
Clove, Madagascar, 2c. per lb.
Ginger, African, 2c. per lb.
Pepper, black, Malabar, 4c. per lb.
white, 2c. per lb.
Pimento, Jamaica, 8c. per lb.
Mexican, 10c. per lb.
Poppy seed, Dutch, ½c. per lb.
Polish, 2c. per lb.

**Comparative Price Indexes**

(100—1949 average)

| Last week | Prev. week | Last month | Oct. 23, 1953 |
|---|---|---|---|
| 138.54 | 138.40 | 138.15 | 147.70 |

*(For Current Prices see page 9)*

mained dim in face of the world shortage of the oil and the fact that demand for aromatic chemicals, notably citral, made from this oil, will be increased during coming weeks as manufacturers swing into full production of holiday items.

**Lime**—Mexican lime oil prices declined 25c. on the distilled quality and were currently $3.50 to $4.60 per pound. West Indian oil was competitively priced in some quarters.

**Peppermint**—Despite advances by the majority of peppermint oil dealers, there was at least one dealer in the trade who was maintaining his price at the minimum quoted level. How long this situation would last was dependent upon inventory positions, of course. In general, the market could be characterized as being very firm with high test peppermint oil prices due for further rise.

## Miscellaneous

**Caraway Seed**—Spot prices advanced ½c. per pound last week and were quoted at 19c. The increase indicated firmness in the market at origin and was said by some trade sources to portend continued steadiness in prices for the immediate future.

**Cassia**—Spot prices advanced ¼c. per pound on Batavia cuttings while longstick and shortstick, cracked, grades were reduced ½c., on spot. Batavia cuttings was currently quoted at 16¾c. to 17c. per pound while longstick, cracked was quoted at 18½c. to 19c. and shortstick, at 17½c. to 17¾c. Saigon grades were unchanged.

**Celery Seed**—French celery seed advanced 2c. per pound last week and was quoted at 48c. per pound, spot. Indian celery seed was also higher, advancing ½c. to 14c. per pound.

**Cinnamon**—Ceylon No. 2 grade cinnamon declined 2c. per pound, on spot, and was quoted at 57c. to 58c. per pound last week. The "0000" grade continued nominal.

**Clove**—Madagascar clove declined 2c. per pound last week while Zanzibar quality dropped a similar amount. The former was currently quoted at 60c. to 61c. per pound while the latter was offered at 70c. to 72c. per pound.

**Ginger**—African ginger declined 2c., on spot, last week while other grades of Jamaican ginger were stronger. Sierra Leone ginger ranged from 32c. to 33c., on spot. Jamaican ginger No. 2 was up 5c. per pound, being quoted at 40c. Jamaica No. 3 grade was advanced 3c. and was pegged at 37c. to 38c.

**Laurel Leaves**—Portuguese and Turkish laurel leaves declined 1c. last week and were currently quoted at 14c. for spot sale.

**Mace**—West Indian mace stiffened, pricewise, last week, in the first price movement in some time. Spot quotations advanced 1c. per pound last week and were currently $1.30 to $1.32 per pound. East Indian grades were unchanged.

**Nutmeg**—The spot market showed a little life last week with quotations advancing 1c., on spot, on East Indian nutmegs. The current market was 39c. on both whole and shrivels. West Indian nutmeg, although not actually advancing, firmed and was quoted at 29½c. to 30c. per pound.

**Paprika** — Spot prices remained unchanged last week. The first arrival of Spnaish new crop was not large because production was reportedly curtailed by electric power restrictions. The quality of the crop was rated far superior to that of

*For Late Market Developments, See Page 4*

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the last two years. Generally, it is agreed that the crop of pods was larger than last year and supplies of top qualities should be freely available. The best of the crop will be shipped during the next three months. Spain's lower price this year should provide the basis for the increase use of its grade, it was felt.

Advice from Spain indicates that the Spanish government is taking strong measures to eliminate "discounting" on the minimum price controls set up. They will likewise curtail consignment business which may serve to give the market more life. The quality of paprika shipped on the first steamer is far superior to anything shipped here in the last two years.

**Pepper**—The market slumped further by late in the week with spot quotations on black pepper off 4c. from preceding week's levels while white pepper was down 2c. per pound. The market slipped another notch during the week, due to the pressure of spot holdings in New York. The little buying that had been induced by the truck strike had no strengthening influence. The shipment market held fairly well although there was a slight willingness to shade the levels of the last two weeks to induce business.

There seems to be a tug of war between the downward trend in our spot market and the steadiness abroad. The problem is will our consuming trade need additional supplies before the pressure of new-crop Malabar is felt in origin markets. The business done here in the last two weeks gives some clue as to the answer.

**Pimento**—The spot market continued to decline last week as new crop Jamaican pimento became increasingly available. Mexican pimento declined sharply in reaction to the consumer swing to Jamaican quality. Jamaican pimento was reduced 8c. per pound by late in the week while Mexican quality declined a total of 10 per pound. The former was quoted at 70 per pound and the latter, 62c.

**Poppy Seed**—Argentine poppy w again available last week and was quot at 32c. Dutch and Polish grades decline the former, ½c. and the latter 2c., response to the quotations on the Arge tine material. Dutch poppy seed w heard at 38c. to 39c. per pound whi Polish seed was quoted at 34c. to 35c. p pound.

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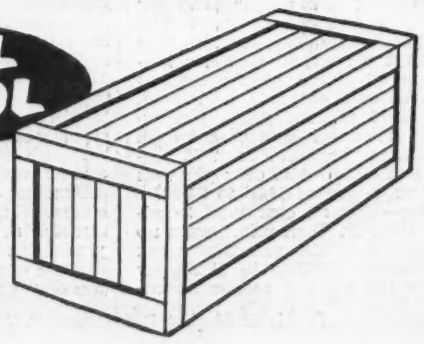

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## Pharmacists Institute Plans Told for Meeting Nov. 4-6

The program for the annual Wisconsin Pharmacists Institute, to be held at the University of Wisconsin, Madison, Wis., November 4 through 6, has been announced and advance registrations are being accepted.

Conferences on anti-hypertensive therapy and drugs will be presented by Dr. Marc J. Musser, professor of medicine at the University of Wisconsin medical school; Dr. Jack Miller instructor in pharmacology at the university's school of pharmacy; and Dr. F. W. Schueler, associate professor at the State University of Iowa.

Recent advances in the oral and injectionable modes of administration will be discussed by Dr. Chester E. Poetsch, director of the pharmacy section, Smith, Kline & French Laboratories, Philadelphia, Pa., and Dr. Larry Wheeler, assistant director of product development, Parke, Davis & Co., Detroit, Mich.

A special panel and discussion on the policies of federal and state drug law enforcement agencies will include N. A. Cook, assistant to the Food and Drug Commissioner of the Department of Health, Education and Welfare; Frank Sojat, supervisor of district 12, Bureau of Narcotics, and Sylvester H. Dretzka, secretary of the Wisconsin State Board of Pharmacy.

## Dodge & Olcott Appoints Executive, Sales Personnel

Dodge & Olcott, Inc., New York, has appointed Hatton B. Rogers director of the company's dry solubles division. Mr. Rogers was formerly director of technical service for Huron Milling Company, Harbor Beach, Mich., and director of quality control for Phillips Packing Company, Cambridge, Md.

At the same time, the company announced the addition of Matthew A. Phelan to its sales organization. Mr. Phelan, who joined the firm at its Philadelphia sales office, was formerly a representative for Naugatuck Aromatics, a division of United States Rubber Company, at Naugatuck, Conn.

### Tombarel Will Move in New York

Tombarel Products Corporation, New York, has made plans to move to 725 Broadway, New York 3. The move is scheduled to be completed during November.


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According to figures compiled by the Bureau of Census, reported production of paint, varnish, and lacquer amounted to 35,372,000 gallons in August, as compared with 33,762,000 gallons in July.

The trucking strike cast a muddled pall over the market last week, as some producers in the New York area settled with truckers early in the week, while others held out until Wednesday. One earth color producer, who had settled the labor dispute early, reported business better than for last year at this time. Others, strikebound longer, reported good demand but inability to ship.

Alkyd resins sales were average for the time of year, but still subject to keen competition among various manufacturers. Some prices were almost directly reflective of the soybean oil market. Buyers held out awaiting lower oil prices. Silicone resins appeared to have reached a sales plateau in the wire coating industry. However, new applications were being studied through research and development.

Dioctyl and di-iso-octyl phthalate listings still appeared to be under fire from competitive producers. Other phthalic esters were in a better price position. Copal and dammar gums were firm on spot, with suppliers having some trouble with shipments. The shellac market showed some firmness last week. Trade in Argentine casein was spotty and for small amounts. Shipment prices were easier.

### *Price Trends*

**Advanced**

None

**Reduced**

Casein, Argentine, ½c. per lb.

**Comparative Price Indexes**

(100—1949 average)

| Last week | Prev. week | Last month | Oct. 23, 1953 |
|---|---|---|---|
| 97.06 | 97.06 | 97.05 | 90.23 |

(*For Current Prices see page 9*)

## Prime Pigments

**Antimony Oxide** — Demand remained specialized and restricted to actual needs. Prices held firm and unchanged at 29c. per pound, bags, carlots, freight allowed, and 30½c. per pound, less carlots, same basis.

**Bone Black** — Prices remained unchanged at 17c. to 23¼c. per pound, drums, carlots, freight allowed, depending on quantity. Buying was limited to immediate needs.

**Carbon Black**—Large volume consumption by the rubber industry continued to give the market a good tone. Paint trade interest in pigment blacks remained good. Prices held without revision for all types.

**Chrome Colors**—Demand was said to be holding up well for most chromates. Delivery problems plagued both producers and consumers as a result of the New York area truck strike. Prices were steady.

**Earth Colors**—One source reported that its records showed sales running on a par with last year. Some kinks in the supply problem were being worked out, as truckers for many firms signed agreements ending walkouts. With the settlements, however, came the problem of possible increased freight rates. It was not known how much freight increases would affect prices. Production and warehouse stocks were available to take care of present buying requirements.

**Iron Blues** — Quotations for all types held without change last week. Some producers did not anticipate any revisions for the near future. The problems caused by the truck strike were not yet clear to most observers, owing to the present muddled state of affairs in which some truckers had returned to work while others held out due to individual disputes.

**Lead Pigments**—The pig lead market was quiet last week, resulting in stable prices for oxides and monosilicate. White leads were said to be moving in a slightly better volume, due to stabilization at recently raised prices. Demand for litharge was well sustained, as the battery industry was in the middle of its peak producing season. Oxides moved out in moderate volume to consumers.

**Lithopone**—The market was described as average, with prices unchanged, demand steady, and enough supplies on hand to amply take care of buyers' needs.

**Titanium Dioxide**—Sales were very satisfactory to producers last week, as it was pointed out that demand had been strong all year. Prices of long standing held without change. Supplies were available to fill current needs.

**Zinc Oxides**—The rubber industry came in for good volumes last week, causing continued strength in the market. Prices held steady and unchanged.

## Synthetic Resins

**Alkyds**—Manufacturers reported a fair volume of material moving to consumers, but under very competitive conditions in many instances. Prices for many alkyds continued to closely reflect the fluctuations of the soybean oil market. Supplies of all types were plentiful, and available for prompt shipment.

**Maleics**—Maleic modified resins were said to have enjoyed a good pickup in sales, chiefly due to revived demand from automotive manufacturers. Prices were fairly steady.

**Melamines** — A pickup in consumption for the fall was noted. Quotations were steady, with supplies plentiful.

**Methyl Abietate**—Both regular and hydrogenated material remained quotably unchanged. Consuming demand held about steady, with buyers encountering little or no delay in shipment except in the New York district.

**Pentaerythritols**—Little change in the market status was noted over the past few weeks. Pricing remained stable. Demand from the paint and varnish trade was well sustained.

**Silicones**—Sales of silicones and their copolymers to the wire coating industry were said to have reached a plateau after a period of rapid expansion. Consuming interest was well held. Inquiry for silicones for use in heat resistant applications was said to be on the increase, particularly in the New York area. Silicone-phenolic copolymers having extremely low moisture vapor transmission rates were being closely studied through research and development facilities. Prices were unchanged. Stocks were ample.

## Lacquer Materials

**Dibutyl Phthalate**—Sales fell off sharply last week, due to the effect of the trucking strike in the New York area. List prices held unchanged at 30c. per pound, tankcars, delivered, 32c. per pound, drums, carlots, same basis, and 33c. per pound, less carlots, same basis.

**Diethyl Phthalate**—Demand for use in plasticizing vinyl scrap held up well until the effects of the truck strike were felt. Sales last week were practically nil. Listings were firm and unchanged at 25c. per pound, tankcars, delivered, 27c. per pound, drums, carlots, same basis, and 28c. per pound, less carlots, same basis.

**Di-iso-octyl Phthalate**—Although a fairly good volume of business had been done until the strike, it was reported that the price structure could have been more stable. There were some indications of shading for large lots although list prices remained at 30½c. per pound, tankcars, delivered, 32½c. per pound, drums, carlots, same basis, and 33½c. per pound, less carlots, same basis.

**Dimethyl Phthalate**—The market was brought close to a standstill by the strike. Demand thus far in October was considered dull. Prices held unchanged at 27½c. per pound, tankcars, delivered, 29½c. per pound, drums, carlots, same basis, and 30½c. per pound, less carlots, same basis.

**Dioctyl Phthalate**—Listings were unrevised last week at 30½c. per pound, tankcars, delivered, 32½c. per pound, drums, carlots, same basis, and 33½c. per pound, less carlots, same basis. Although most producers reported that they were holding rigidly to the 30½c. per pound price, the market appeared slightly unsettled due to competitive conditions in some instances.

**Diphenyl Phthalate**—The market was steady with demand holding firm for specialized uses. Prices were without change at 51¾c. per pound, drums, carlots, delivered, and 53¾c. per pound, less carlots, same basis.

## Natural Resins

The trucking strike hindered some dealers from making shipments here. Producing markets abroad remained very firm, with some Manila copals scarce. Spot prices for both copal and dammar gums were firm and unchanged, with stocks of most grades adequate enough to fill actual buying requirements.

**Shellac** — The Calcutta market was slightly firmer during the week, with stocks there being held at the current

*For Late Market Developments, See Page 4*

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*Your "Q" to Quality* **SHELLAC**

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1. Bone dry bleached white shellac.
2. No. 65 extra white refined bone dry bleached shellac.
3. 8 lb extra light pure French varnish.
4. Orange shellacs—all grades.

**GUARANTEED TO MEET WITH GOVERNMENT SPECIFICATIONS**

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J. A. Castro, Havana, Cuba
C. M. Durbin Company, Cincinnati, Ohio
Grant Chemical Co., Boston, Mass.
J. H. Hinz Company, Cleveland 13, Ohio
Harry Holland & Son, Inc., Chicago 6, Illinois
R. L. Kelley, Danbury, Conn.
J. G. Roger Chemical Co., Inc., Baltimore 23, Maryland
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**THE MANTROSE CORPORATION**

*Importers • Bleachers • Manufacturers*

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high price level. Suppliers here in looking ahead felt that prices might ease due to the prospects of a good November sticklac crop combined with the weakening effect exerted by a Siam market which was much lower than Calcutta. Spot prices held without change in this country. Consuming demand was primarily for immediate needs.

## Miscellaneous Materials

**Casein**—The market was easier, due to lack of demand combined with the prospect of plentiful stocks in the Argentine. Shipment was lower at 21c. to 22c. per pound, duty paid for Argentine casein.

## Naval Stores

**Rosin, Gum**

(USDA, per 100 lbs.)

| | Fri. | Mon. | Tues. | Wed. | Thur. |
|---|---|---|---|---|---|
| Drums— | | | | | |
| H | ... | ... | ... | $7.95 | ... |
| I | ... | $7.85 | ... | 7.95 | ... |
| K | ... | ... | ... | 7.95 | ... |
| M | ... | ... | $7.85 | 7.86§ | ... |
| N | ... | ... | ... | 7.85 | ... |
| WG | $7.90 | 7.90 | ... | 7.95 | ... |
| WW | 8.05§ | ... | 8.15 | 8.40 | $8.12§ |
| Bags— | | | | | |
| K | 7.85 | ... | ... | ... | ... |
| M | ... | ... | ... | 7.68 | ... |
| N | ... | ... | ... | 7.80 | ... |
| WG | ... | ... | ... | 8.15 | ... |
| WW | ... | 7.85 | 7.90 | 7.95 | ... |

Tankcars (for week ended October 15)—
WG $7.45, N $7.47½, 1,080*

Sales, USDA
719* 4‡ 377* 1,653* 465*

New York
(per 100 lbs., c.l., Friday)
B through M $8.65, N $8.70, WG $8.80, WW $8.95

**Turpentine, Gum**

(USDA, per gal. 7.2 lbs.)

| | | | | | |
|---|---|---|---|---|---|
| Price | .512§ | .52 | ... | .515 | ... |
| Sales | 14,000¶† | 10,500¶† | ... | 8,000¶† | ... |

New York, Friday, per gal. 7 lbs., tankcars, 61c., l.c.l. 73c.

*Drums equivalent. †Tankcars. ‡Carlots.
¶Gallons. §Average price.

## U.S. Gypsum Fills Three District Sales Managerships

U. S. Gypsum Company, Buffalo, N. Y., has appointed K. J. Jalbert to the newly-created post of district sales manager of the company's central paint district. Mr. Jalbert, formerly assistant sales manager of the paint products division, will locate at the company's Chicago office.

W. W. Henkel, formerly assistant sales manager of paint products has been named district sales manager for the southeast paint district, located at Atlanta., Ga. W. F. Moran, also a former assistant manager of paint products, has been named district sales manager of U. S. Gypsum's mid-east division, in Pittsburgh, Pa.

## Kyanize Adds New Enamel

Kyanize Paints, Inc., Everett, Mass., has added an alkyd enamel named "Lo-Sheen" to its paint line. The new paint features low sheen and an absence of reflecting glare, the company stated. It can reportedly be used both indoors and outdoors, and is suitable for such items as metal terrace tables, metal awnings, garden tools and equipment.


MONSANTO

**DOP**

...Five bulk stations assure fast delivery

***Call any Monsanto office:***

St. Louis, Atlanta, Boston, Chicago, Cincinnati, Cleveland, Detroit, Houston, Los Angeles, New York, Philadelphia, San Francisco, Seattle, Twin Cities, Wilmington, Montreal.



**Casein** ALL GRADES

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• LACTIC
• RENNET

Casein for paper coating, adhesives, cold water paints, rubber, plastics.

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**WOOD FLOUR**

**WHITE PINE**

**ALL MESHES**

***Inquiries solicited***

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**NORWAY, MAINE**



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CINCINNATI, OHIO — Amsco Solvents and Chemicals Co.
CLEVELAND, OHIO—Ohio Solvents and Chemicals Co.
DETROIT, MICHIGAN — Western Solvents and Chemicals Co.
FORT WAYNE, INDIANA — Hoosier Solvents and Chemicals Corp.
GRAND RAPIDS, MICHIGAN —Wolverine Solvents and Chemicals Co.
HOUSTON, TEXAS—Texas Solvents and Chemicals Co.
INDIANAPOLIS, INDIANA — Hoosier Solvents and Chemicals Corp.
LOS ANGELES, CALIFORNIA —Westvaco Chemical Division, FMC.
LYNDHURST, NEW JERSEY—Stoney-Mueller, Inc.
MILWAUKEE, WISCONSIN — Wisconsin Solvents and Chemicals Corp.
MONTREAL, QUEBEC — Canada Colors and Chemicals Ltd.
NEW ORLEANS, LOUISIANA —Southern Solvents and Chemicals Co.
PROVIDENCE, RHODE ISLAND—Philipp Brothers Chemicals Co.
RIDGEFIELD, NEW JERSEY—Joseph Turner and Co.
ST. LOUIS, MISSOURI — Missouri Solvents and Chemicals Co.
SAN FRANCISCO, CALIFORNIA—EvanStrom Co.
TORONTO, ONTARIO—Canada Colors and Chemicals Ltd.

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FOOD MACHINERY AND CHEMICAL CORPORATION

**NITRO, WEST VIRGINIA**

CABLE: OHOPEX NITRO TELEPHONE: PL 53351

## Imports at U.S. Ports

—Continued from page 54

PHOSPHATE ROCK—2,150 tons, H J Baker & Bro, Fuikbay
PIMENTO—33 bgs, Kellys America Ltd, Hamburg
POLLACKLIVER OIL—150 dms, Interocean Chemical & Minerals Corp, Yokohama
50 dms, Bache & Co, Yokohama
150 dms, Taub Hummel & Schnall, Yokohama
130 dms, Arista Oil Products Co, Yokohama
35 dms, Albumina Supply Co, Yokohama
POLYETHYLENE—33 dms, Monsanto Chemical Co, Rotterdam
POLYVINYL CHLORIDE—8,000 bgs, Naples
POPPY SEED—50 bgs, C M Van Sillevoldt, Rotterdam
50 bgs, P H Petry, Rotterdam
100 bgs, Biddle Purchasing Co, Rotterdam
POTATO STARCH—300 bgs, Manhattan Paste & Glue Co, Copenhagen
25 bgs, National Starch Products, Rotterdam
PYRETHRUM FLOWERS—245 bls, Gulf Oil Corp, Dar es Salaam
97 bls, McLaughlin Gormley King, Dar es Salaam
75 bls, Prentiss Drug & Chemical Co, Kobe
QUEBRACHO EXTRACT—1,021 bgs, First National Boston, Buenos Aires
POWDER — 150 bgs, American Dyewood Co, Glasgow
RADIUM ELEMENT—1 cs, Radium Chemical Co, Antwerp
RED IRON OXIDE—870 bgs, C J Osborn, Malaga
RICE STARCH—100 bgs, Stein Hall & Co, Alexandria
SAGE LEAVES—600 bls, Dubrovnik
SAGO FLOUR—540 bgs, Stein Hall & Co, Singapore
SASSAFRAS OIL—7 dms, Magnus, Mabee & Reynard, Kobe
10 dms, George Lueders & Co, Kobe
20 dms, Magnus, Mabee & Reynard, Yokohama
SEEDLAC—200 bgs, United Shellac Corp, Calcutta
600 bgs, C H Timm, Calcutta
100 bgs, Mantrose Corp, Calcutta
200 bgs, Ralli Bros, Calcutta
200 bgs, Schwab Bros, Calcutta
200 bgs, Parks Co, Calcutta
400 bgs, Haeuser Shellac Co, Calcutta
200 bgs, Carleton & Moffat Co, Calcutta
100 bgs, Mac Lac Co, Calcutta
400 bgs, Lind Mayer & Co, Calcutta
200 bgs, Bradshaw Prager & Co, Calcutta
1,150 bgs, Gillespie-Rogers-Pyatt, Calcutta
450 bgs, Wm Zinsser & Co, Calcutta
1,200 bgs, Calcutta
SELENIUM METAL POWDER—10 cs, Daiichi Bussan Kaisha, Yokohama
SERPENTINA ROOT—398 bgs, Meer Corp, Tuticorin
SHARKLIVER OIL—50 dms, Arista Oil Products Co, Yokohama
SHELLAC—250 bgs, Ralli Bros, Calcutta
40 bgs, F H Paul & Stein Bros, Rotterdam
41 bgs, F H Paul & Stein Bros, Hamburg
250 bgs, Irving Trust Co, London
200 bgs, Wm Zinsser & Co, London
950 bgs, Mac Lac Co, Calcutta
200 bgs, C H Timm, Calcutta
320 bgs, Wm Zinsser & Co, Calcutta
50 bgs, Colony Import & Export Corp, Calcutta
100 bgs, Calcutta
SIENNA—14 bbls, M Grumbacher, Leghorn
SODIUM ALGINATE—60 cks, Fried Co, Havre
SPERM OIL—200 dms, Scandinavian Oil Co, Pisco
SPERMACETI WAX—150 ctns, Glasgow
STARCH—100 bgs, Bank of Manhattan Co, Rotterdam
255 bgs, Rotterdam
SULFADIAZINE POWDER—13 cs, Conray Products Co, Yokohama
TALC—8,225 bgs, Charles Mathieu, Genoa
TAPIOCA FLOUR — 400 bgs, East Asiatic Co, Bangkok
TARTAR—451 bgs, Tartaric Raw Materials, Algiers
994 bgs, Tartaric Raw Materials, Bordeaux
TURMERIC—176 bgs, L E Ranson & Co, Madras
UREA—273 bgs, Terra Chemicals Inc, Rotterdam
SYNTHETIC—1,000 bgs, Chemical Manufacturing Co, Liverpool
VANILLA BEANS—69 cs, J H Schroder, Antalaha
65 cs, Chase National Bank, Antalaha
26 cs, First National Boston, Antalaha
22 cs, Antalaha
WATTLE EXTRACT—1,653 bgs, Hammond & Carpenter, Durban
2,058 bgs, Barkey Importing Co, Mombasa
422 bgs, River Plate Corp, Mombasa
427 bgs, River Plate Corp, Durban
WHITING—1,200 bgs, N H Weitzner, Antwerp
841 bgs, Pluess Staufer, Antwerp
1,000 bgs, Antwerp
WOOL GREASE—50 dms, N I Malmstrom, Manchester
104 dms, Adelaide
ZIRCON SAND—2,000 bgs, Brisbane

### Baltimore

LEATHERMEAL—500 bgs, H J Baker & Bro, Liverpool
LOCUST BEAN GUM—200 bgs, Paul A Dunkel, Amsterdam
PEATMOSS—500 bls, Lion Trading Co, Bremen
800 bls, Bruco Peatmoss Corp, Bremen
TRICHLOROETHYLENE—15 dms, Chemical Manufacturing Co, Liverpool
WATTLE BARK—1,000 bls, Mossel Bay

### Boston

CARAWAY SEED—75 bgs, Boston Brokerage Co, Rotterdam
COTTON LINTERS—147 bls, Wonolancet Co, Pisco
CRESYLIC ACID—51dms, J E Stevens, Liverpool
GLUESTOCK—46 bls, E Butterworth & Co, Manchester
81 bgs, E Butterworth & Co, Manchester
103 bls, H Meyer & Co, Mollendo
117 bls, Manufacturers Trust Co, Genoa
QUEBRACHO EXTRACT—50 bgs, Tanimex Corp, Liverpool
SODIUM ALUMINATE—400 dms, Chemical Manufacturing Co, Liverpool
BICARBONATE—299 bgs, Chemical Manufacturing Co, Liverpool
CYANIDE—66 dms, Philipp Bros Chemicals, Rotderam
SPERM OIL—300 dms, Scandinavian Oil Co, Pisco
UREA—1,653 bgs, National Shawmut Bank, Antwerp
WATTLE EXTRACT—553 bgs, Hammond & Carpenter, Durban

### Houston

CINNAMON QUILLS—50 bls, Volkart Bros, Colombo
100 bls, Otto Gerdau, Colombo

### Los Angeles

AGAR—11 cs, Pan Asiatic Trading Co, Inc, Yokohama
BONEMEAL—2,205 bgs, Manufacturers Trust Co, Trieste
COCONUT OILCAKE—4,000 bgs, Internatio Rotterdam, Cebu

—Continued on page 70


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**SYNPRO METALLIC STEARATES and SYNPRON VINYL HEAT STABILIZERS**

Large new modern plant; increased Technical Service Staff; Thirty years know-how.

*Write for samples and data*

**SYNTHETIC PRODUCTS CO.**

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"SILVERSHEEN SPECIAL" 325 MESH

**RICHMOND MICA CORP.**

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W&D 5021

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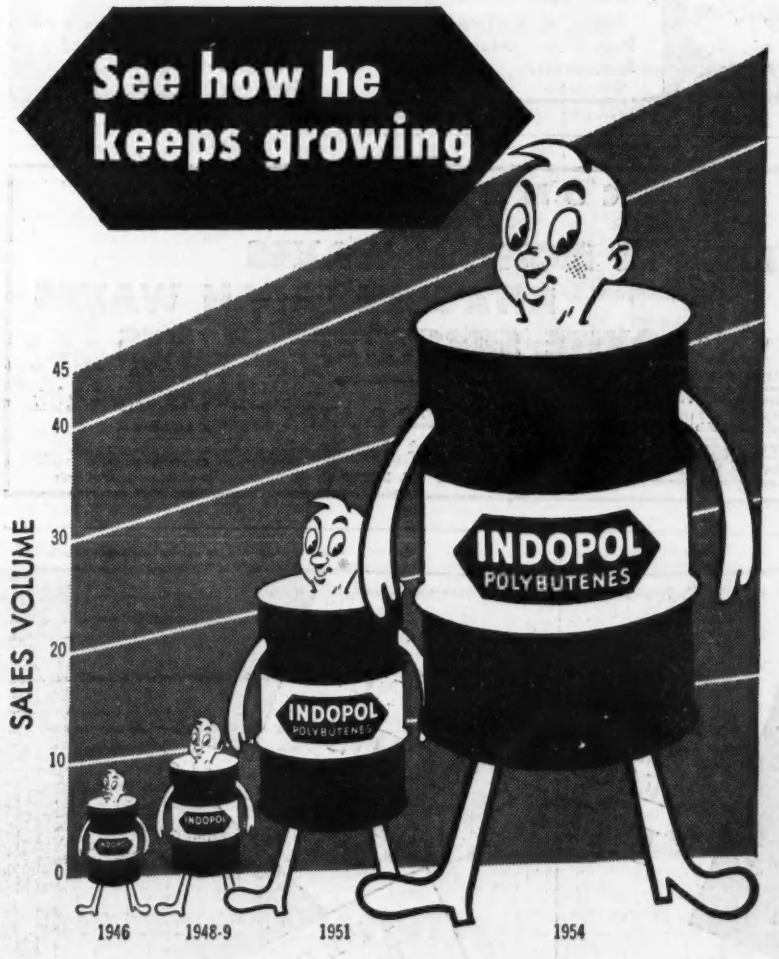
A Division of National Dairy Products Corporation

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*This is a repeat, brought up-to-date, of an ad we ran in 1951. We think that it speaks for itself.*

Expanding sales demonstrate increasing applications of

**INDOPOL POLYBUTENES**

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The Indopols are viscous synthetic polymers — light color, stable, miscible with many organic solvents — compatible with many natural or synthetic resins, waxes and polymers.

Widely used for quality improvement and cost reduction of calking and sealing compounds, adhesives, surgical and industrial tapes, tracing paper, rubber products, tree bands and electrical insulation.

Indoil Chemical Company offers you dependable supply, tank cars or barrels, in seven viscosity grades from 100 S.S.U. at 100°F. to 3000 S.S.U. at 210°F.

**INDOIL® CHEMICAL PRODUCTS**

**INDOIL CHEMICAL COMPANY**

910 S. Michigan Ave., Chicago 80, Illinois

CENTURY BRAND
RED OIL—STEARIC ACID
Saponified — Distilled
HYDROGENATED FATTY ACID
(HYDREX)
Cotton Seed Fatty Acids
Tallow Fatty Acids
Corn Oil Fatty Acids
Soya Fatty Acids
Specialty Fatty Acids
GLYCERINE • PITCH • WHITE OLEINE
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FATTY ACIDS
SPECIFICATIONS
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Color 5¼" Lovibond Red ..... 2.5 max.
Color 5¼" Lovibond Yellow ..... 15 max.
Color—Gardner 1933.. 2—4
Unsaponifiable ..... 0.25%—0.50%
Saponification Value ... 261—270
Acid Value ..... 260—269
Iodine Value (WIJS)..... 7—13
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Manufacturers since 1837 Factory: Newark, N. J.
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# Oils, Fats and Waxes

Trading in oils and fats slackened last week and and was not up to the volume of the preceding period. Lower soybeans were reflected in the oil as well as cottonseed oil and prices were off fractionally. Corn oil, however, was firm and higher as a result of increased cost of corn for spot delivery. Peanut oil was in light supply, but easier, with light trading taking place at lower levels. Offers of crude peanut continued scarce. Crude coconut oil was irregular, but closed firm with the sharp advance in copra due to increased demand of the latter for European delivery. Refined coconut oil also was higher.

While trading in tallow and greases was less active, the market remained strong, advancing fractionally, reflecting the sold up production for nearby delivery. Soapers were in the market for moderate lots before the advance. Edible tallow was sharply higher, up 1 cent per pound.

Light stocks of tung oil for nearby delivery, strengthened this market and trading took place at higher levels. Demand for oiticica oil was quiet, but prices were well held at former levels. Linseed oil was inactive and quotably unchanged, despite lower flaxseed. While new business was slow, an active request continued for delivery against former contracts. Available stocks of crude menhaden oil were scarcer and higher prices were named for prompt shipment. Export inquiry was fairly active, with bids ½ cent below asking prices.

## Vegetable Oils

**Castor**—Market was dull and featureless. All domestic grades were quotably unchanged No. 1 Brazilian was held at 15½c. to 15¾c. per pound, tankcars, New York, prompt delivery.

**Coconut**—Crude oil closed firmer after declining fractionally. Prompt shipment was held at 13c. per pound, tankcars, f.o.b. Pacific coast shipment. Tankcars for prompt delivery New York were nominal at 13¾c. per pound.

**Corn**—This market was steadier and slightly higher. Crude oil was sold at 13¾c. per pound, tankcars, f.o.b. mills. Refined oil was higher at 17c. per pound, New York delivery.

**Cottonseed**—Trading in bleachable cottonseed oil futures continued light last week. A steady tone prevailed in the market, reflecting the firmness of cash soybeans, despite the easier tone of crude cottonseed oil. Price fluctuated narrowly, closing slightly higher. Upturns brought out light hedge selling in May and July. Consuming demand for cash oil continued light. Refined salad oil for prompt delivery was lower, with crude and off fractionally. Tankcars were quoted at 16¼c. per pound, New York for prompt delivery. It was reported last week that CCC sold 98 tankcars of crude cottonseed oil for export. Additional offers of 51 tankcars of crude were noted for export on a competitive basis. CCC also sold 12,500 tankcars of semi-refined cottonseed oil for export according to trade reports. Details were lacking.

Crude cottonseed oil was unsettled and fractionally lower. Market was nominal at 12⅝c. per pound, tankcars, prompt in the southeast, with sales at 12⅜c. per pound, nearby in the Valley and 12c. to 12⅛c., Texas, according to location.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended October 22 follow:—

| | Sales | Cents per pound High | Low | Close |
|---|---|---|---|---|
| December ..... 1955 | 8 | 14.79 | 14.60 | 14.69@14.73 |
| March ..... | 31 | 14.80 | 14.63 | 14.74@14.76 |
| May ..... | 37 | 14.85 | 14.73 | 14.80S |
| July ..... | 22 | 14.83 | 14.70 | 14.68@14.75 |

**Linseed**—While trading was light last week, the market remained unchanged and steady. Active demand continued for delivery against former contracts. Raw oil was quoted at 14c. per pound, tankcars, Minneapolis, October delivery; 13c., first half November; 12½c., second half November and December; 12.6c.; January-March and 12.7c., April-June.

**Flaxseed** — Seed receipts continued heavy. Market declined 5c. per bushel.

*Minneapolis.*—There was another good run of flaxseed received at Minneapolis last week. Most of it applied against previous to-arrive bookings but the balance went for spot cash sale or for the Commodity Credit Corp. (CCC). Receipts for CCC, however, were very light, amounting to only 8 cars. The week's total run of flaxseed totaled 1,091 cars, compared to 1,069 cars the preceding week and 380 cars in the like week last year. Spot cash purchases (mostly at $3.40 bushel) amounted to 44 cars and 35,000 bushels in trucklots.

Receipts and shipments of flaxseed, in bushels, were as follows:—

| | Receipts 1954-55 | Receipts 1953-54 | Shipments 1954-55 | Shipments 1953-54 |
|---|---|---|---|---|
| Past week. | 1,886,500 | 665,000 | 308,000 | 166,250 |
| Since Sept. 1.. | 10,926,750 | 8,419,350 | 2,383,500 | 1,546,700 |

**Peanut**—Trading in crude oil took place at 21½c. per pound, tankcars, f.o.b. mills, ½c. lower than previous business. Refined oil was nominal at 25½c. per pound, tankcars, New York delivery.

**Rapeseed**—Scarcity of oil for nearby stiffened the market and tankcars were higher at 17½c. per pound, New York delivery. Late November delivery was offered at 16½c., tankcars, same basis.

**Soybean**—Crude oil was unsettled and fractionally lower last week. Trading lacked snap and was spotty. Sales took place at 12c. per pound, tankcars, Decatur, nearby. First half November was 11⅝c. bid, with trading at 11⅜c. for second half November and 11¼c. for November-December. Refined salad was easier, decling to 14¾c. per pound, tankcars, New York, prompt delivery.

Sales and prices of crude soybean oil futures on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended October 22 follow:—

| | Sales | Cents per pound High | Low | Close |
|---|---|---|---|---|
| October ..... | 17 | 11.95 | 11.65 | Expired |
| December ..... 1955 | 55 | 11.10 | 10.95 | 11.10@11.18 |
| March ..... | 18 | 11.20 | 10.89 | 11.10@11.17 |
| May ..... | 26 | 11.25 | 10.95 | 11.17S |

Total sales, 116 contracts.

**Tung**—Scarcity of oil for nearby delivery created a stronger tone and sales were made up to 22½c. per pound, tankcars, New York, for immediate. Late November-December delivery was quoted at 21½c. Drums were higher, ranging from 24c. to 24½c. per pound, according to quantity.

## Miscellaneous

**Castor Beans** — Trading was reported slow. Shipments were merely nominal at $100 per ton, f.o.b. Brazilian ports.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:—

| | Pounds Beans | Pounds Oil |
|---|---|---|
| Last week..... | 2,943,600 | 1,558,000 |
| Previous week..... | 316,800 | 406,000 |
| Corresponding week, 1953. | 10,310,550 | 1,788,000 |
| Total this year..... | 90,871,200 | 103,302,360 |
| Corresponding period, 1953. | 98,272,400 | 103,126,300 |

**Cocoa Butter**—Market was stronger, advancing to 88c. per pound, spot delivery.

**Copra**—Shipments were easier, early, but regained declines as a result of increased European buying interest. Prompt was quoted at $177.50 per ton, c.i.f. Pacific coast.

## Fats and Greases

**Greases**—While trading was light, the market remained steady. Prices were lifted ⅛c. to ¼c. per pound. Not all hog was higher at 8¾c. and all hog 10c. per pound, tankcars, delivered. Yellow was quoted at 6½c. per pound, same basis. House was quoted at 6⅜c. and brown, 5¾c. per pound, same basis.

**Lard**—Market was stronger and up frac-

*For Late Market Developments, See Page 4*

## *Price Trends*

**Advanced**

Cocoa butter, 3c. per lb.
Greases, ⅛c. per lb.
choice white, ¼c. per lb.
Lard, 1⅛c. per lb.
Oil, corn, crude, ¼c. per lb.
refd., ¼c. per lb.
Menhaden, crude, ½c. per lb.
Rapeseed, ½c. per lb.
Tung, ½c. per lb.
Oleo stearine, ½c. per lb.
Peanut meal, $1 per ton.
Tallow, edible, 1c. per lb.
inedible, ½c. per lb.
Wax, carnauba, yellow, Parnahyba, 2c. per lb.
Japan, 2c. per lb.

**Reduced**

Oil, cottonseed, crude, ¼c. per lb.
refd., ¼c. per lb.
Peanut, crude, ½c. per lb.
refd., ½c. per lb.
Soybean, crude, ¼c. per lb.
refd., ¼c. per lb.

**Comparative Price Indexes**

(100=1949 average)

| Last week | Prev. week | Last month | Oct. 23, 1953 |
|---|---|---|---|
| 104.72 | 104.39 | 98.76 | 91.53 |

*(For Current Prices see page 9)*

tionally. Cash lard advanced to 18¼c. per pound, drums, Chicago.

**Oleo Oil**—Prices were unchanged and steady at 19½c. per pound, drums, as to quantity.

Oleo stearine, however, was firmer and lifted to 14c. to 14½c. per pound, barrels, as to quantity.

**Tallow** — Trading was limited, though the market remained firm, due to sold-up production for October. Prices were lifted ⅛c. Fancy was sold at 8½c. per pound, drums, f.a.s. for November shipment. Soapers purchased moderate quantities before the advance. Bleachable fancy was sold at 7½c. per pound, tankcars, delivered and extra, 7¼c. Special was held at 7c. and No. 1, 6½c. Edible was stronger and boosted to 13½c. per pound, same basis.

## Fish Oils

**Refined Fish**—Buying interest was moderate, with actual sales confined to less carlots. Light pressed oil was offered at 10½c. per pound, tankcars, but could have been shaded. Crude menhaden was scarce and strong. Tankcars were held at 8c. per pound f.o.b. works, Atlantic coast against bids of ½c. less. The Gulf market was nominal at 8c. per pound, f.a.s. Export interest was fairly active.

Production of crude menhaden oil in August totaled 2,877,240 gallons, against 3,314,320 gallons, August last year. Output for eight months ending August amounted to 11,743,290 gallons, compared with 10,784,850 gallons during the same period last year.

## Fatty Acids

Consuming demand has increased for vegetable varieties, especially for corn and soybean acids, since the recent price reduction of these grades. Trading was active both for prompt and later delivery. Firmness of tallow kept oleic and stearic acids in a steady position. Demand also was reported quite active for prompt requirements at unchanged quotations.

## Cake and Meal

**Cottonseed Meal**—Prices continued to hold firm for forty-one percent at $69.50 per ton sacked Memphis; $71 north Alabama; $74 south Alabama and south Georgia and $75 Carolina mills, October shipment. First half November could probably be bought at these prices, however, mills are still very reluctant to offer forward positions.

**Linseed Meal**—Market was steady and unchanged. Offers for nearby were light.

*Minneapolis.*—Prices ruled steady on linseed meal last week and the nearby situation was rather tight. There was no expeller meal available for October delivery and only limited amounts of extracted meal. Extracted linseed meal for nearby was quoted at $63 a ton, bulk, in carlots, f.o.b., Minneapolis; $64 for November-December and $65 for January-March. Expeller meal was nominally quoted at $69.50 for November-December and at $70.50 for January-March. Shipping specifications continued good, crushers said.

Shipments of linseed meal, in pounds, were as follows:—

| | 1954-55 | 1953-54 |
|---|---|---|
| Past week | 13,800,000 | 11,520,000 |
| Since Sept. 1 | 101,400,000 | 88,660,000 |

**Peanut Feed Meal**—Unless resale meal can be found, there are no offerings in the trade. The last sale of forty-five percent old process was reported at $78 per ton sacked f.o.b. Georgia for October shipment. Because peanuts for crushing are scarce, it is not expected that this situation will shortly improve.

**Soybean Meal**—With pressure resulting from harvesting soybeans, the market was easier and lower at $62 per ton bulk, Decatur, for October - November-December shipment. Feed manufacturers continued to operate on a hand-to-mouth basis.

## Waxes

**Carnauba**—A steadier tone was noted in this market, due to reduced selling pressure. Consuming demand was restricted to actual needs. Scarcity of yellow wax on spot and higher cost of replacements advanced No. 1 yellow Parnahyba to $1.11 to $1.13 per pound, depending upon seller and quantity. No. 1 yellow Ceara was unchanged at $1.02 to $1.04 per pound, same basis. No. 3 Ceara crude was quoted at 71c. to 73c. per pound and refined 73c. to 80c. per pound, depending upon quality.

**Japan**—Stocks were reported unavailable on spot and early November delivery was quoted at 50c. per pound, New York. The higher cost has increased the use of substitutes.

**Ouricury**—The market was firm and unchanged. Refined grades were maintained at 95c. to 98c. per pound, as to quality and seller.


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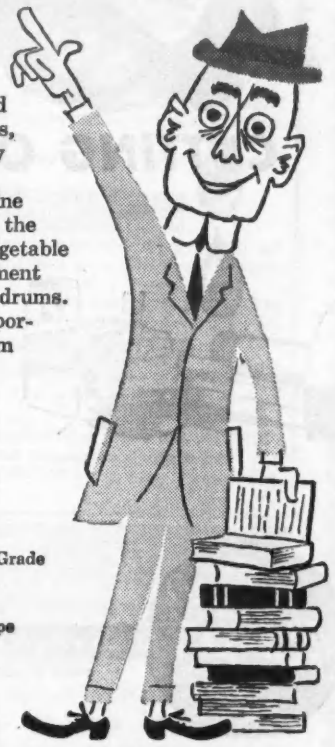

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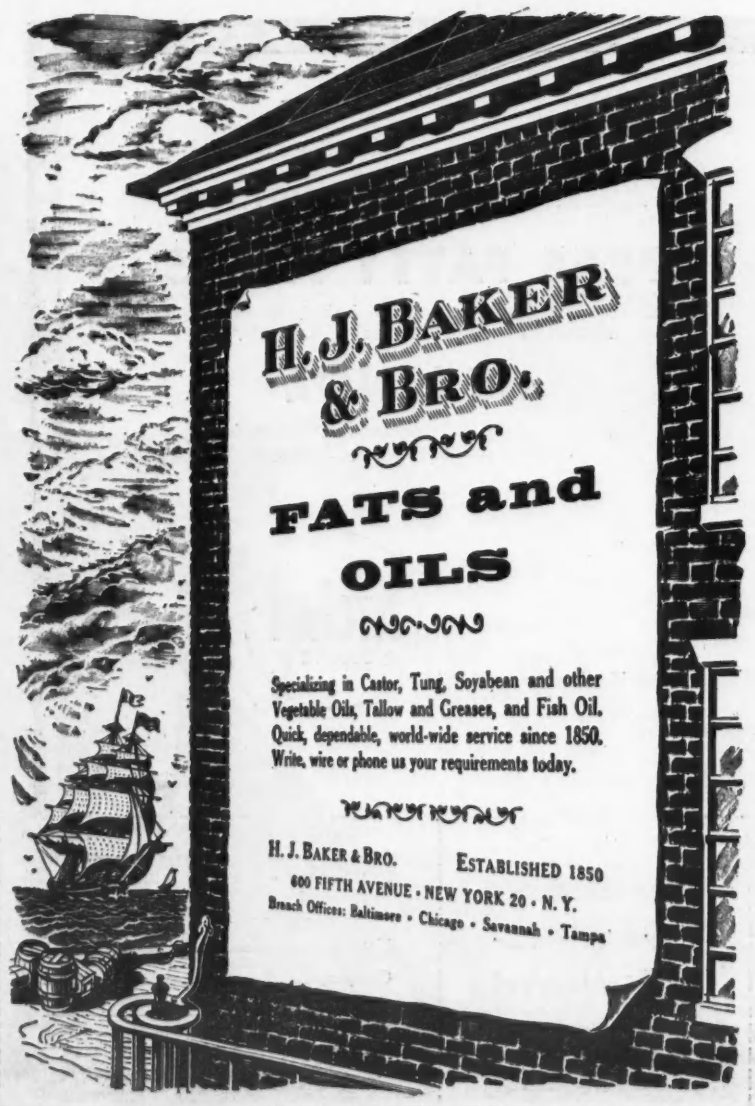
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## Copra From Philippines Lower During September

Exports of copra from the Philippine Islands during September totaled 73,188 long tons, a decline of 10 percent from the previous month but 15 percent above the volume shipped in September, 1953, according to a Foreign Agricultural Service report last week. Total shipments during the January-September period amounted to 551,109 tons or 35 percent more than the 406,972 tons exported in the corresponding period of 1953.

The breakdown of the September copra exports by country of destination is as follows:—United States—24,304 tons (Atlantic—1,148, Gulf—2,000, Pacific—21,156); Canada—500; Belgium—1,300; Denmark—6,000; Germany—8,200; Italy—3,500; the Netherlands—18,700; Norway—2,250; Israel—1,500, Europe unspecified—584; Columbia—2,250; Venezuela—3,600, and South America unspecified—500 tons.

September exports of coconut oil amounted to 7,663 tons compared with 6,495 tons in August and 7,080 tons in September, 1953. The January-September total was 47,764 tons against 39,063 in 1953. All of the September shipments of coconut oil went to the United States (Atlantic).

On a copra equivalent basis, exports of copra and coconut oil in January through September of this year totaled 626,925 tons, or one-third more than the 468,977 tons exported in the corresponding months of 1953.

## Container Report Released By Department of Commerce

A heavier demand for rigid plastic containers in the second quarter of 1954, as compared with the corresponding period of the previous year, was revealed in the 1954 edition of "Container and Packaging," issued last week by the Department of Commerce.

Overall business activity in the container field during the second quarter of 1954 varied considerably among the individual container industries when compared with the same period of 1953, but showed a general improvement over the first quarter of 1954, according to the survey.

The report also revealed that textile bag demand was below the second quarter of 1954, closure shipments declined in all major categories except metal caps, converters of transparent flexible films operated at an improved level as demands in the second quarter of 1954 were heavier, shipments of collapsible tubes were .04 percent above the comparable 1953 period and shipments of glass containers were approximately equal to last year, with a decrease of .8 percent noted.

Shipments of steel drums, barrels, kegs and pails were less than the second quarter 1953 total. Metal can shipments compared favorably with the second quarter of 1953, with the total up 58 percent. Total output of tight barrels in the second quarter of 1954 increased 2.2 percent, while fiber can and tube sales were 17.1 percent below the second quarter 1953 total.

## Witco Drier Unit Appoints

Charles Gardner has been appointed sales manager of the drier division of Witco Chemical Company, New York. Until recently Mr. Gardner was eastern sales manager in charge of technical sales and service for Advance Solvents & Chemical Corporation, New York, and technical director of Advance International, Ltd.

### Dickerson Company Moves Offices

Dickerson Company, a division of U. S. Cocoa Corporation, has moved its offices to 130 North Broadway, Camden 2, N. J. The firm's telephone number in Camden is Woodlawn 6-2300, and in Philadelphia the number is Lombard 3-2288.


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3—3' x 50' Rotary D. H. Dryers or Coolers.
6—Sperry 18" x 18" iron recessed Filter Presses, 18 chambers.
3—Sperry iron 36x36 recessed Filter Presses, 100 chambers, 2" cake, hydr. closure.
7—Pebble Mills, 800 gal. 6' x 8'; 235 gal. 5' x 4'; 125 gal.; 50 gal.; 25 gal.
2—Link-Belt Co. ROTARY DRYERS. Roto-Louvre #502-16, Type C, 5'2" dia. 16' long, with #304 S/S contact parts. #207-10, 2'7" dia. x 10' long, carbon steel construction, and all auxiliaries.
1—Day Imperial jacketed Mixer, 75 gal.
3—Anco 4 x 9' Chilling Rolls.
3—#12 Sweetland Pressure FILTERS, 48 leaves on 3" c/c. Leaves are bottom drainage, grooved rim, bronze with AU monel covering. Cap. each 642 sq. ft. filtering area. Excellent condition.
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1—Niagara #110-20 Filter with 12 S.S. leaves.
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3,900 gal., hor. jkt'd, 75 PSI, ASME.
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4—Tolhurst 40" Suspended Type.
8—Centrifugals, 12", 20", 26", 30", 40" & 48" Steel, Copper, Stainless & Rubber.
6—Sharples No. 5A Stainless & #6.
2—De Laval Multi Clarifiers 300 & 301.

**FILTERS**
1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
Sperry and Shriver 12" to 36" iron & wood.
Sweetland & Oliver Filters.

**KETTLES AND TANKS**
Dopp 350 gal. Agit. Jack Cl Vac Kettle.
2—Impreg. Units 30" & 36" dia. complete.
15 gal. Autoclave agitated.
500 & 1,000 gal. closed Jack. Steel Kettles.
2300 gal. vert. agit. Jack. Steel Kettle.
1—250 gal. Lead lined Kettle.
5—American Tool 300 gal. Churns.
1—250 gal. Jacketed Copper Kettle.
Stainless, alum., copper. Glass lined, lead lined and steel kettles and tanks.
Copper & Stainless Varnish Kettles.

**PULVERIZERS AND MILLS**
Patterson Pebble Mills, 6'x8', 6'x5', 30"x42".
Abbe 30"x36". Also Jar Mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1—#00 Raymond Mill, 30 HP complete.
2—#0000 Raymond Mills.
Williams #3 & 2XX Hammer Mills.
Ball & Jewell Rotary Cutters Lab & up.
Jeffrey 18"x18" single Roll Crusher.
Buchanan 12"x12" Jaw Crusher.
2—Robinson 18" & 22" BB Attrition Mills.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 9" x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
Houchin 18"x30" 4 Roll Granite Stone Mills.
2—U.S. & Premier 1½ H.P. Colloid Mills.

**MIXERS, SIFTERS & SCREENS**
Baker Perkins double arm Mixers, 100, 50 & 9 gal. Also single arm Mixers.
Read 40 & 80 qt. vert. 4 speed Mixer.
Tyler 3'x5' Vibratory 2 deck Screen.
Patterson 3½ dia. Stainless Conical Blender.
Day 1000± Steel Powder Mixer M.D.
10—Dry Powder Mixers, 50 to 3,000#.
4—Day 2½, 8, 15 & 40 gal. Pony Mixers.
1—Ross Type 150 gal. change Can Mixer.
15—Portable Elec. Mixers, ¼ to 3 HP.
6—Lead and Paste Mixers to 150 gals.

**MISC. AND SPECIALS**
Kux 2½" Tablet Machine.
Anderson & French Oil Expellers.
Tablet Machines Single & Rotary Types.
Kane 2 H.P. Gas Boilers, 200± pressure.
1—Knapp Model S Can Labeler M.D.
3—Stokes and Day Powder Fillers.
Samco Jr. Vac. liquid Filling Machine.
Filling Machines & Labelers.
Pneumatic Scale Automatic Capper.
1—Howe Mogul barrel and bag packer.
2—Revolving Pans, 30" & 36" dia.
2—Worth 12"x12"x12" Vac. Pumps.
8—Devine, Buffalo, Stokes Vac. Pumps.
Soap Machinery for Toilet, Laundry, etc.
Centrif., Rotary, Duplex & Triplex Pumps.

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107 EIGHTH ST., BROOKLYN 15, N. Y.
STERLING 8-1944

## SELECT PROCESSING EQUIPMENT MANY AT LESS THAN 50% TODAY'S REPLACEMENT COST

F M C

### TYPICAL ITEMS FROM OUR INVENTORY

★ Shriver & Sperry Aluminum Filter Presses; 12", 18", 30", 36".
★ Shriver & Sperry Stainless Filter Presses; 12" and 18".
★ 2 Enzinger Pressure Filters; 15 leaves in tank 48" x 91".
★ 3 Glass-Lined Jacketed 100 gal. Kettles; good condition.
★ A. T. & M. 42" Type 316 Stainless Suspended Centrifugal; 30/15HP.
★ Sharples Super-D-Hydrators; Models C20 and C27 in Stainless.
★ Sharples Super-D-Canter Type 316 SS; Model PN 14.
★ Bird 36" x 50" Centrifugal Filter; Rubber Cov. & S.S.; 40HP.
★ Horizontal Vulcanizer 6' x 10'; Simplex Door; ASME-U69; at 125#PSI.
★ Buflovak Stainless Clad Vac. Filter-Dryer; Jktd; 78" x 58" complete.
★ Stokes Rotary Jacketed Vacuum Dryer; 30" x 10' complete.
★ Devine Vacuum Shelf Dryer No. 12; shelves 40" x 42".
★ Squier Stainless Clad Rotary Atmospheric Dryer; 30" x 20'.
★ Bagley & Sewell Double Drum Dryer; 28" x 60" with Accessories.
★ C.E. Two Stage S.S. Flash Drying System; 1000 lbs. evap. per hour.
★ Louisville Steam Tube Dryer; 54" x 40' with Cooler 38" x 20'.
★ Rotary Jacketed Vacuum Dryer; 52" x 102"; Dust Collector & access.
★ Mojonnier Stainless Vacuum Pan; 3' x 10' with Calandria Section.
★ Copper 2000 gal. Vacuum Pan; manhole type; coil heated.
★ Stainless Vacuum Still; 425 gal.; 56" x 50"; Jktd.
★ Zaremba INCONEL Double Effect Evaporator; 60" x 17' and 84" x 15'6".
★ Swenson Quadruple Effect Evaporator; Long Tube Vert. Film Type.
★ Stainless Steel Bubble Cap Column; 16 sec.; 8⅝" x 19'; complete.
★ Aluminum Column; Bubble Cap; 60 plates; 27½" dia. x 36' high.
★ Vertical Stainless Steel Condenser; 13' high; 231 S.S. Tubes; 220 sq. ft.
★ Pfaudler Glass Lined Jacketed Reactors; 150 gal., 400 gal., 1000 gal.
★ Monel 750 gal. Reactor; Jacketed and Agitated; 5' x 5'.
★ Lancaster Stainless Lined Rotary Reactor; 300 PSI; Int. 50" x 17'.
★ Dopp Cast Iron Jacketed and Agitated Kettles; 650 gal.; 61" x 68".
★ Bethlehem Cast Iron Sulphonator; 79" x 74½"; with Coils in Jacket.
★ Orville Simpson Rotex Sifters; 30" x 60"; 60" x 84"; 40" x 120".
★ Robinson Unique Gyro Sifters; 20" x 69"; 20" x 86"; 40" x 60".
★ Stainless Steel 40 cu. ft. Double Ribbon Jacketed Mixer; 32" x 96".
★ Stainless Steel 63 cu. ft. Ribbon Mixer; 36" x 108".
★ Sprout Waldron 283 cu. ft. Steel Ribbon Mixer; 5' x 10'.
★ Readco 210 gal. Jacketed Heavy Duty Double Ribbon Mixer, 30" x 68".
★ Sprout Waldron Stainless Ribbon Mixer; Continuous Cylinder; 28" x 12'.
★ J. H. Day S.S. Double Arm Jktd. Mixer; 5 gal. with Vac. Cover.
★ W. & P. Type Heavy Duty Double Arm Jcktd. Mixer; 100 gal. working.
★ Baker Perkins 200 gal. Jacketed Double Arm Mixer; size 17; BB/V11.
★ Stainless Tumbling Barrel Mixer 5' x 5'; baffled interior; 3 HP.
★ Lancaster Mix Mullers; Type EAG3 and EAG4 with accessories.
★ Colton Model #5½ Single Punch Tablet Press; 3" x 1½" die; 5 HP.
★ Gruendler Supermaster No. 1 Hammer Mill with 15 HP; cap/1000 lbs.
★ Mikro No. 4 F Pulverizer; requires 40 HP motor.
★ American Ring Roll Pulverizer with 50 HP 3/60/220-440 V motor.
★ Abbe Jacketed Ball Mill 30" x 44"—Direct to 7½ H.P.
★ International Type X24 Pebble Mill 8' x 8' with 50 HP gearmotor.
★ Patterson Buhrstone Lined Pebble Mills; 5' x 8'; 6' x 6' and 6' x 8'.
★ Hardinge Conical Ball Mill 10' diameter x 48" face.

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# EQUIPMENT
## for CHEMICAL AND ALLIED INDUSTRIES

2—Hersey Rotary Dryers, 5' x 23'; 6' x 24'.

1—Vulcan 7' x 120' Rotary Kiln, complete.

1—Patterson Kelly 1500 gal. steel jkt'd Reactor, 75 psi, ASME.

3—Type 316 Stainless Steel Jacketed Kettles, 700 gal. ea.

15—Stainless Steel Jacketed Kettles, 600 gal. ea.

1—Combustion Engineers Type 347 Stainless Steel Jacketed Autoclave, 500 gal., 300 psi. NEW.

5—Koven Stainless Steel Jacketed Kettles, 380 gal. ea.

1—150 gal. Steel Jacketed Reactor, 75 psi.

1—Pfaudler Glass Lined Jacketed Vacuum Reactor, Series R, 500 gal. with impeller type agitator and drive.

1—Titusville 150 HP Package Boiler, 125 psi ASME, complete.

5—Aluminum Vertical Storage Tanks, 4000 gal. ea.

1—Type 316 Stainless Steel Storage Tank, 1500 gal.

1—Type 316 Stainless Steel Storage Tank, 2500 gal.

2—Feinc Type 316 Stainless Steel String Filters, 6'6" x 6', NEW.

1—Sperry 42" x 42" Aluminum Plate & Frame Filter Press with 35 chambers, 3" frames. NEW.

1—Sparkler Model 33D9 Filter, stainless steel type 316, ASME, 60 psi—NEW.

2—Shriver 24" x 24" cast iron Plate & Frame Filter Presses, 22 chambers ea.

1—Eppenbach Q8V Stainless Steel Colloid Mill w/3 HP motor.

1—Fletcher 40" Stainless Steel suspended-type Centrifuge with perforated basket.

1—Lummus Steel Bubble Cap Column, 4' x 37' with 35 trays.

1—Colonial Iron Works Monel Bubble Cap Column, 2' x 5', with 5 trays.

1—Type 304 Stainless Steel Bubble Cap Column, 6' x 18' with 7 trays.

1—Dry Dock Monel Bubble Cap Column with 13 trays.

3—Buflovak Vacuum Shelf Dryer, 20 shelves, 42" x 42".

4—Alco Steel Heat Exchanger, 450 sq. ft. ea.

2—Colonial Iron Works Monel Heat Exchangers, 350 sq. ft. and 150 sq. ft.

1—Lummus Type 316 Stainless Steel Heat Exchanger, 360 sq. ft.

1—2' x 3' nickel jkt'd Ball Mill.

6—Simpson Intensive Mixers, 18", #0, #1.

1—Day 150 gal. Stainless Steel Double Sigma Blade Mixer, complete.

1—Baker Perkins Double Arm Sigma Blade Jacketed Mixer with hydraulic tilting device, 100 gal.

2—Day 75 gal. Imperial Model 30 jkt'd double arm sigma blade Mixers.

1—Day 50 gal. stainless steel jkt'd double arm sigma blade Mixer.

1—Baker Perkins Model 4NE jkt'd double arm sigma blade Mixer w/motor.

## R. GELB & SONS, INC.
UNION, NEW JERSEY Est. 1886 UNionville 2-4900

## EQUIPONOMICS

BIRD CONT. CENTRIFUGE — 36"x50" S.S. 304. COMPLETE.

NICKEL CLAD KETTLE, ASME Jack. Agit. 750 Gal.

CENTRIFUGE—TOLHURST 30" underdriven type 316 S.S. with 2 speed 3 HP XP Motor, NEW.
COLLOID MILLS—All S.S. Construction, 3", 6", & 10" with Motors.
KETTLES—STEEL AND S.S. 35 to 1500 Gal. 100 PSI JKT.
MIXERS—D.A. SIGMA. Jktd. STEEL AND S.S. 50, 60, & 200 Gal.

MIXER—DAY 2½ Gal., Jktd. Vac., Double Sigma Blade

PFAUDLER G/L CONDENSER, 30 sq. ft.
PROCTOR & SCHWARTZ 20"x30" Fin Drum Dryer Preformer. Complete.
ROTEX SIFTER — 40"x84" — 2 SCREEN 3 HP.
SHRIVER 30" P&F—42 ch. 4 eye NICKEL PLATED FRAMES.
Fabricators of New Stainless Steel Alloy Chemical Equipment ASME Code.
WE BUY SURPLUS EQUIPMENT AND COMPLETE PLANTS

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MILLS—3 roll and 5 roll J. H. Day, Ross, Lehman
PAINT MIXERS—J. H Day, Baker-Perkins
CENTRIFUGAL Tolhurst 48"
PULVERIZERS — Raymond, Mikro
FILLING MACHINES—Powder, Liquid, Paste
JACKETED KETTLES—Stainless Steel and Plain
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NEWMAN TALLOW & SOAP MACHINERY CO. INC.
ESTABLISHED IN 1880
1051-59 WEST 35TH STREET
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## SELECTED OFFERINGS

Agitators, portable: 1, 2, 3, 5 hp. explosion proof, slow speed.
Filter: Oliver 1'x2½' continuous.
Vacuum Still: 500 gal. st. steel, jacketed.
Kettle: 50 gal. st. steel, agitated—new.
Pulverizers: Micro ISH, 2DH, 2TH.
Dryer: Devine 2x4' vacuum drum, st. st.
Centrifugal: Tolhurst 32" rubber covered.
Pebble Mill: Hardinge 5'x36" continuous.
Mixers: 100 gal. W.&P. jacketed.
Clarifiers: De Laval 84-51 and 600.
Separator: Sharples model 16B, st. steel.

Large stock of Cappers, Fillers, Filters, Steam Jacketed Kettles and Tanks, Labelers, Colloid, Hammer, Roller and Pebble Mills, Powder, Liquid and Paste Mixers, Sifters.

Write us or phone (Sceley 8-1431) if you need equipment or have any for sale.

LOEB EQUIPMENT SUPPLY CO.
814 W. Superior St. Chicago 22, Ill.

## SAVE 50% OR MORE ON GOOD USED BUYS

1—Blaw-Knox 110 Gal. Autoclave, 2,000 psi.
1—Keeler C.F. Boiler, 350 H.P. 160# W.P.
1—Bird Sus. Cent. 48" S.S. Perf. Basket.
1—Tolhurst 26" S.S. Sus. Cent. M.D.
1—Buflovak 6' Vac. Crystallizer.
1—Swenson Rubber Lined Cont. Vacuum Cooling & Crystallizing Bodies, 1670# Crystals per hr.
1—Al. Nell 4'x9' Double Drum Dryer.
1—Buflovak 20 Shelf Vac. Dryer, 42"x42".
3—Stokes #138F Vac. Shelf Dryers, 24"x36".
4—Devine 17 & 20 Shelf Double Dr. Vac. Dryers, 59"x78".
3—G.L. Reactors, 50, 100 & 500 Gals.
4—Spiral Mixers. 1,000 to 4,000#.
1—B.P. 20 Gal. S.A. Jack. Mixer, 10 H.P.
1—Micro 2 TH Pulverizer, 15 H.P. motor.
2—Rotary Cutters, 12" w/10 H.P. motors.
4—Roball Sifters to 40"x120".
1—Jeffrey-Traylor Screen 30"x68" Stainless Steel—NEW.
1—Stokes B-2 Rotary Tablet Machine.
1—S.S. Tank, 2,100 Gal. Horiz. w/coil.
4—Anderson RB Expellers M.D.
2—Lee 300 Gal. Stainless Steel Jack. & Ag. Kettles, 10# W.P.
6—Horiz. Welded Steel Jack. Crystallizers, 20' & 30' sections.

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The Machinery and Equipment Corp.
533 WEST BROADWAY
New York 12, N. Y. GRamercy 5-6680

DRYERS—Rotary 3'x25', 5½x45', 6'x80'—also—Ruggles Coles XA 14 w/cyclone collector system.
SCREENS—Tyler Hummer 3'x5' & 4'x5' single/triple deck—Rotex 20x48 single—Roball 40x120 double.
BLENDERS—New 600# Spiral ribbon—center discharge—Motor drive.
HAMMER MILLS—Wms. 8x15—24x30 Jeffrey 24x36—S/S—Pulvasizer—A.
PEBBLE MILLS—100 & 235 gal. w/new porcelain lining and motors.
FILTER PRESS—12" shriver 4 eye—wash/closed.
BLOWERS/EXHAUSTERS — 3500/5500/9000/35000 cfm.—New.
HARDINGE LABORATORY MILL—W/Separators/Feeders—also 3'x8".
FORK LIFT TRUCKS—7500# cap. Hyster—New engines. Pneumatic tires.
NASH VACUUM PUMPS—AL & MD 673, MD 623/20 HP.
PUMPS, CENTRIFUGAL — S/S — Rubber—C.I. & Viking 4"—w/15 HP motor.
MIXER—W&P double Sigma blade—50 gals. Simpson 1½ — Lancaster EAG4, & EAG4½, Robinson Double Trough.
EXTRACTORS—26"-40" Steel 48" Rubber & Sharples Super-D-Cantor.
NEW GEARMOTORS—7½ HP 350 rpm, Westinghouse—xpl. proof.

LAWLER COMPANY
LAWLER PLACE, METUCHEN, N. J.
METUCHEN 6-0245

## CHEMICAL PLANT EQUIPMENT
*New and Used*

BOILERS - PUMPS - TANKS - FILTERS - HEAT EXCHANGERS
BALL MILLS - PULVERIZERS - CONVEYOR - DRYERS
PRESSURE COOKERS - AIR COMPRESSORS - DAY MIXERS
RIBBON MIXERS - REFRIGERATION MACHINES
CRYSTALLIZERS - STEAM JACKETED KETTLES.

EQUIPMENT LIKE NEW • AT BARGAIN PRICES

H. LOEB & SON :-: 4643 LANCASTER AVENUE PHILADELPHIA 31, PA.

## 20% TO 60% OFF

Only partial list of extensive inventory.

3—Colton 5½T tablet presses, variable speed M.D.
6—New Devine 5-5A vacuum shelf driers. 10 and 11 shelves.
4—New Stokes 138H8 vacuum shelf driers. 8 and 4 shelves.
12—Stainless steel condensers from 6 to 140 sq. ft.
1—Stokes 54" stainless 304 vacuum still.
1—Link suspended 40" centrifuge motor driven S/S.
New Lyden Bros. 8-door incubator.
1—Tolhurst 26" centrifuge bottom discharge S/S.
2—90 gallon steel Abbe Engineering ball mills 30" x 42", jacketed MD.
1—2 x 4 S/S rotary vacuum drier.
12—Baker Perkins and Day Mixers. 20 to 500 gallons.
25—New Aluminum condensers, 400 and 600 sq. ft.
1—Buflovak drum flaker 48" dia. x 40 ft.
2—Buflovak double drum driers, 24 x 36, and 32 x 52".
3—Stokes & Smith model G1 fillers, explosion-proof motors.
2—Piston S/S filler with agitated hopper, all monel metal.

CHEMICAL & PROCESS MACHINERY CORP.
146 Grand St. WOrth 6-3430 New York 13, N. Y.

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ALL CLASSIFIED ADVERTISEMENTS—$5.00, thirty-six words or less: 85c. for each additional six words or fraction.

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### AGENCIES WANTED

**Manufacturers Sales** Representative available. Responsible industry and fine chemicals distributing concern located in N. Y. C. desires to act as manufacturers agent; 25 years sales and market development experience. OPD 509.

### EQUIPMENT OFFERED

**Drums, Stainless** Steel-304—55 gallon—20 each—used once—cleaned—$55.00 each—F.O.B. Chicago—subject to prior sale—Chemical Commodities, Inc., Olathe, Kansas.

**For Sale** by large pharmaceutical manufacturer. Laboratory furniture and fixtures ideal for chemical or pharmaceutical work. Approximately 23 center tables, 46 wall tables, 16 fumehoods, also storage cabinets, bookcases, balance tables, sectional cold boxes, constant temperature room, complete with equipment and controls. Available about May 1, 1955. Equipment in excellent condition. Complete list furnished to interested parties. P.O. Box 2096, Phila., Pa.

**Filters, Dryers,** Kettles, Grinders, Mixers, all sizes and types. A complete line of machinery for the Chemical and Allied Industries. Let us know about your Idle Machinery. Wolf-Perry Machinery Company, 293 Frelinghuysen Ave., Newark, N.J.

**High Speed** Roller Mills, medium speed Roller Mills, Pebble Mills, Pony Mixers, Change Can Mixers. We carry a complete line of rebuilt and guaranteed machinery. Write for list. Irving Barcan Co. 249 Orient Avenue, Jersey City 5, N J.

### EQUIPMENT WANTED

**Want heavy** duty steam jacketed Baker-Perkins mixer 100 gallon capacity. Sigma or dispersion blades. Send serial number and price. The Farboil Company, 801 Key Highway, Baltimore 30, Md.

**Fitzmill stainless** steel 5 H.P.; stainless steel Kettle 150 gallons, jacketed; stainless steel Kettle 60 gallons; scraper agitator, jacketed; Pony Mixer 8 gallons. Arthur Process Equipment Co., 135 B'way, N. Y. C. 6, N. Y. Barclay 7-7026.

**Pilot Plant** and full scale chemical plant equipment required for large expansion program. Kettles, columns, heat exchangers, tanks, mixers, dryers, centrifuges, pumps, filters, screens, pulverizers, etc. Stainless steel alloy equipment preferred. Complete plants given immediate study. OPD 491.

### EQUIPMENT WANTED

**Chemical Equipment** wanted for defense plant work including autoclave centrifuges, dryers, filters, kettles, mixers, pulverizers and tanks. Also interested in set-up plants, now operating or idle. Give full particulars in first letter for consideration. OPD 490.

**Stainless steel** or aluminum drums, 55 gal., reconditioned and clean. OPD 510.

### MATERIALS OFFERED

**Offer—Way** below schedule: 5,500 lbs. Calcium Acetate; 7,000 lbs Aluminum Nitrate; 7,000 lbs. Lithium Stearate; 7,000 lbs. 2, 4 Lutidine; 1,000 lbs. 2° Pyridine; 8,000 lbs. Meta Cresol. Aceto Chemicals Co., Inc., Flushing 54, New York; INdependence 1-4100.

**Spot Delivery** from New York warehouse of Prime Virgin, certified pure Mercury. Mexican mine, La Marina, 303 Fifth Ave., New York 16, N. Y. Phone: ORegon 9-0050.

**Ammonium Carbonate** Powder, prime quality fresh stock, attractively priced. Shamrock Chemicals Corporation, 420 Lexington Ave., New York 17

### MATERIALS WANTED

**Wanted—By-product** Acetic Acid. OPD 507.

### POSITIONS OFFERED

**Chemical Sales:** Excellent opportunity for chemist with knowledge of industrial chemical applications, sound chemical education, research-minded preferably, desiring to enter industrial chemical sales field covering Midwest States 50% of the time out of town. Good prospects for capable man desiring advancement to executive potential. Reply in detail stating age, experience, previous employment, starting salary desired first year. OPD 499.

**Wanted: Assistant** to manager with experience in domestic and foreign chemical trade for old established New York importers and exporters of fine and pharmaceutical chemicals. OPD 504

### POSITIONS WANTED

**Position Wanted** as production superintendent of pharmaceuticals. Can keep tablets and pills from capping, coated work from chipping and coming through, polishing, enteric coating, make moulded tablets. Had college organic chemistry. Can make ointments, syrups, elixirs, and solutions, and the know why they precipitate, do assaying, pricing, formulating and personnel. OPD 501.

## Bristol Says Pfizer Affected Also in Tetracycline Decision

Frederic N. Schwartz, president of Bristol Laboratories, Inc., New York, last week stated that an announcement by Chas. Pfizer & Co., Brooklyn, N. Y., (OPD, 10/18/54) regarding a United States Patent Office decision on tetracycline, omitted the fact that the decision also excluded Pfizer from the interference. The Patent Office had rendered the decision in a controversy involving Bristol, Pfizer and American Cyanamid Company, New York.

Mr. Schwartz said "the fact of the matter is that all three parties, Pfizer, Cyanamid and Bristol, were excluded from the interference, and the ultimate issuance of a patent on tetracycline is still open. The decision in no way changes the commercial positions of the three companies."

## *Health Insurance Ads Hit*

*—Continued from page 5*

tive or misleading statements, and deceptive concealment or non-disclosure of exceptions and limitations. The practices are challenged as "unfair and deceptive" in violation of the Federal Trade Commission act.

In response to the charges, the Joint Committee on Health Insurance, composed of representatives of seven insurance associations, whose memberships include companies issuing accident and health insurance, stated that the complaints filed by the commission were not a definite finding or ruling that the advertising in question actually violates the provisions of the Federal Trade Commission act. Nor does the filing of these complaints imply the statement contended, that the relatively few companies concerned are averse to changing their advertising to remove Federal Trade Commission objections.

The committee's statement also maintained that the complaints did not constitute a criticism of the advertising literature of the business as a whole. Nor should they be interpreted, the statement continued, as criticism of the accident and health insurance contracts issued by any of the companies.

## *NFA to Hear Forecasts*

*—Continued from page 5*

of the agronomy department at Cornell, and has spent many years in research and teaching in the physical chemistry of soils and in colloid chemistry.

Dr. Coleman will report to the membership on current and planned activities of the association.

The convention will open Wednesday, November 10, with a luncheon and business meeting of the board of directors. The first general session will begin at 10 a.m. Thursday, November 11, with Mr. Geoghegan presiding. Features of this session will be the annual report of president Russell Coleman and the premiere showing of NFA's new motion pictures. This will be followed by a business meeting of the membership. The Thursday evening program will feature the convention banquet. There will be no speaking program at the banquet. Friday's general session, which also will begin at 10 a.m., will feature the addresses by Mr. Wells and Dr. Bradfield.

## *Imports at U.S. Ports*

*—Continued from page 63*

COPAL GUM—42 bkts, Catz American Co, Inc, Zamboanga

COPRA—500 long tons, Vegetable Oil Products Co, Zamboanga
250 long tons, American Trust Co, Cebu
1,000 long tons, American Trust Co, Legaspi

CAKE—3,000 bgs, Balfour Guthrie & Co, Cebu
6,720 bgs, Balfour Guthrie & Co, Manila
100 bgs, Sun Ripe Coconut Corp, Manila
1,120 bgs, Pacific Vegetable Oil Corp, Manila
8,080 bgs, Funch Edye & Co, Kobe

MEAL—6,600 bgs, Snow & Co, Manila
36,064 bgs, Northern Vegetable Oils, Suva

LOCUSTBEAN GUM—100 kegs, Duche & Sons, Genoa

MOLASSES—199,089 gals, N A Trading & Importing Co, Banes

POLLACKLIVER OIL—200 dms, Universal Foreign Service, Yokohama
100 dms, Interocean Chemical & Minerals Corp, Yokohama

RAPESEED—300 bgs, Rotterdam

SEEDLAC—200 bgs, H W Peabody, Calcutta
100 bgs, Calcutta

SESAME SEED—150 bgs, The Chase National Bank, Acapulco
950 bgs, Acapulco

### *Norfolk*

ALCOHOL, OLEYL—29 dms, Croda Inc, Liverpool

MANGROVE BARK—715 bgs, Olson Sales Agency, Lourenco Marques

PEATMOSS—400 bls, Bruco Peatmoss Corp, Bremen

UREA, SYNTHETIC—2,000 bgs, Chemical Manufacturing Co, Liverpool

### *Philadelphia*

BONEMEAL—4,103 bgs, Ralli Bros, Calcutta
7,628 bgs, Ralli Bros, Karachi

CALCIUM PHOSPHATE, DIBASIC — 1,698 bgs, Corn Exchange Bank, Antwerp

FUEL OIL—132,522 bbls, Esso Export Corp, Las Piedras

GYPSUM—6,311 tons, U S Gypsum Co, Hantsport

PEATMOSS—220 bls, Keer Maurer, Hamburg
400 bls, New Amsterdam Import Co, Hamburg
500 bls, New Amsterdam Import Co, Bremen

PETROLEUM, CRUDE—818,222 bbls, Gulf Oil Corp, Puerto La Cruz
200,449 bbls, Gulf Oil Corp, Mena Al Ahmadi
214,915 bbls, Socony Vacuum Oil Co, Puerto La Cruz
114,571 bbls, Atlantic Refining Co, Pamatacual
206,967 bbls, Atlantic Refining Co, Mena Al Ahmadi

RAPESEED—3,000 bgs, Rotterdam

SHELLAC—50 bgs, Colony Import & Export Corp, Calcutta

WHITING—3,500 bgs, Antwerp

### *San Francisco*

BONEMEAL—243 tons, A M Goldstein, Buenos Aires

CARAWAY SEED—100 bgs, B C Ireland, Rotterdam
100 bgs, W L McClintock Co, Rotterdam
100 bgs, Ziel & Co, Rotterdam
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## Fluorspar Domestic Industry

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mates of limited supplies of fluorspar deposits in the United States are misleading in that they do not include the low-grade ores, some of which are already being worked. He said that if the 25-35 percent fluorspar ores were included in the reserve estimate, it would nearly double prospective supplies.

A. H. Sutton of the Aluminum Company of America, Pittsburgh, Pa., testified in favor of imports because of diminishing suppplies in this country. He pointed out that Alcoa is both a producer and consumer of acid-grade fluorspar and is very much interested in the reserves of crude ore available. Alcoa has been purchasing supplies from other sources in order to conserve its own reserves, he stated, and at the same time reclaims fluorine values from its smelting operations.

He cited the estimates of the President's Materials Policy Commission Report (Paley report) that consumption of fluorspar will be more than doubled in 1975—1,150,000 short tons against 585,000 short tons last year. In order to fill this consumption estimate, it will be necessary to obtain 650,000 tons from phosphate rock, he said. This will require a technological advance by industry considerably beyond presently known processes for separating the two minerals.

Most of the mines that have closed down recently are those with ore-bodies which have become almost exhausted or those with small and shallow operations which could be quickly reopened in an emergency and with higher prices, Mr. Sutton said. Substantial fluorspar importations are warranted, even though accompanied by limited dislocations in the domestic industry, he added, because they extend and preserve our relatively small domestic reserves.


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